

# Index of All JOS Issues

by Barry Dreikorn - 2010  
edited by Clark McCoy - 2010

## Vol 0, No.0, Pilot Issue 1991

Jos-index-v0-n0- 1991 -item 1 -page 1 .txt

Title: The Journal of the Oughtred Society

Author: Editor

Summary: Background leading to, the reasons for, and the plan to start formal publication of the Journal of the Oughtred Society

Keywords: Journal of the Oughtred Society

Jos-index-v0-n0- 1991 -item2-page3 .txt

Title: The June Meeting in Oakland

Author: Rodger Shepherd

Summary: Meeting of nine attendees exhibiting their collections and discussion of supporting slide rule collecting in future by: (a) forming a society, (b) forming a publication, or (c) doing both.

Keywords: slide rule collecting, publishing, organizing, standards

Jos-index-v0-n0- 1991 -item3 -page5 .txt

Title: Proposed Projects

Author: Anon

Summary: A second meeting, reprinting Cajori's book on slide rules and allied instruments, booklets listing slide rules and their makers, attracting more people.

Keywords: second meeting, reprints, Cajori, booklets, makers, membership

Jos-index-v0-n0- 1991 -item4-page6.txt Title: Saul Moskowitz – In Memoriam Author: Bob Otnes

Summary: Recalling Saul Moskowitz, noted antique instrument dealer and publisher of noted catalogs for over 20 years, upon his unexpected death.

Keywords: Saul Moskowitz, antique scientific instruments, catalogs

Jos-index-v0-n0- 1991 -item5-page7.txt

Title: The Otis King Slide Rule

Author: Anon

Summary: Description of Otis King cylindrical slide rule, its basic operation, models, years of manufacture, figure showing two models.

Keywords: Otis King, cylindrical slide rule, British patent, serial numbers, how to use.

Jos-index-v0-n0- 1991 -item6-page9.txt

Title: The Charpentier Calculator

Author: Bob Otnes

Summary: Description of Charpentier metal circular slide rule, its scales and tables listing K&E and Dietzgen catalog editions offering them for sale, very rare only two known to author, figure from 1897 K&E catalog illustrating Charpentier Calculator.

Keywords: Charpentier, metal circular slide rule, accuracy, British patent, French patent, models

Jos-index-v0-n0- 1991 -item7-page 1 2.txt

Title: "Büro-Antik" Auction in Köln, April 1991

Author: Bob Otnes

Summary: Auction of typewriters, calculators and ten lots of slide rules with their estimated and realized prices. Most expensive, a German cylindrical slide rule in its original wooden case sold for \$763.54. Information for participating in future auctions.

Keywords: Germany, auction, Büro-Antik, auction catalog, prices

Jos-index-v0-n0- 1991 -item8-page 1 4.txt

Title: Information

Author: Anon

Summary: List of scientific instrument (including slide rules) dealers. Source for free copy of IBM booklet on a 300 year chronology of calculating tools. Two books of interest, one on the 300th year anniversary of the discovery of logarithms and another on the translation of Napier's instructions from the Latin on the use of his "bones"

Keywords: Scientific instrument dealers, reference books, Napier, logarithms, bones

Jos-index-v0-n0- 1991 -item9-page 1 6.txt

Title: Letters

Authors: Various

Summary: Comments on advanced copies of pilot issue and editor's responses. Mostly satirical.

Keywords: Letters to editors

Jos-index-v0-n0- 1991 -item1 0-page 1 6.txt

Title: Advertisements

Authors: Various

Summary: For sale and wanted ads for slide rules including offer to pay \$10,000 for a Pickett slide rule made before 1920. Ads to make jigsaw puzzles out of slide rules and mounting brackets to install on motorcycle handlebars.

Keywords: Wanted, For Sale, Service, Nystrom, Pickett, WW2 Los Alamos slide rules

## Vol. 1, No. 1, Spring 1992

jos-index-v1-n1-1992-item1-page1.txt

Title: The Journal of the Oughtred Society

Author: Editor

Summary: Comments on the launching of the Journal of the Oughtred Society

Keywords: Journal of the Oughtred Society

jos-index-v1-n1-1992-item2-page1.txt

Title: The June 1992 Meeting

Author: Editor

Summary: Comments on the annual meeting of the Oughtred Society

Keywords: Meeting of the Oughtred Society

jos-index-v1-n1-1992-item3-page1.txt

Title: Reprinting Cajori

Author: Editor

Summary: Discussion on the value of reprinting "A History of the Logarithmic Slide Rule and Allied Instruments" by Florian Cajori

Keywords: Cajori F.

jos-index-v1-n1-1992-item4-page2.txt

Title: Wanted: Slide Rule Articles

Author: Editor

Summary: Outline of some possible topics for submission to the Journal of the Oughtred Society for publication

Keywords: slide rule topics

jos-index-v1-n1-1992-item5-page5.txt

Title: Pickett Metal Slide Rules.

Author: Shepherd, Rodger.

Summary: History of Pickett metal slide rules, chronology, styles, cursors. Keywords: Metal, aluminum, magnesium alloy, grove configurations, slide tension, logo, numbering, duplex, deci-point, Pickett 902

jos-index-v1-n1-1992-item6-page9.txt

Title: George Washington Richardson's Direct Reading Slide Rules.

Author: Babcock, Bruce E.

Summary: History and use, drawing, references, models and numbers

Keywords: Otnes R. K., Clark J. J., I.C.S., Richardson G W, Strohm R T, K&E, Dietzgen, Lawrence Engineering, gauge points, Richardson Adding & Subtracting (1812), Richardson Polymetric (1776), Richardson Logometric (1860-LL), Richardson Binary Polymetric 1865-0, International Correspondence Schools

jos-index-v1-n1-1992-item7-page14.txt

Title: The Gilson Slide Rule Company.

Author: Aldinger, Henry

Summary: History, location, and drawings of the Gilson Company

Keywords: Gilson R., Gilson C., Atlas, circular slide rule, Richardson, midgets, Deitzgen, Bruning, Compass, Optical, Dietrich-Post, Lietz A/, Post F., Travella

jos-index-v1-n1-1992-item8-page16.txt

Title: Small Wonder.

Author: Bennett, Al.

Summary: Describes, with photos, the operation of Small Pocket Calculator made by Small, Small & Company.

Keywords: Circular, Mannheim, Small, Charpentier, Boucher

jos-index-v1-n1-1992-item9-page18.txt

Title: Pickett's "Eye-Saver Yellow".

Author: Shepherd, Rodger

Summary: Approaches to color to reduce eyestrain using slide rules.

Keywords: Color, 5600 Angstrom, Fowler M.S.,

jos-index-v1-n1-1992-item10-page19.txt

Title: Log Log Scales.

Author: Otnes, Bob.

Summary: Invention and use of log log scales with references and drawings.

Keywords: Roget P M, Transactions of the Royal Society, Pickworth C. W., Faber A. W., Keuffel & Esser, Cox W., Keuffel W. L. E., Breckenridge W. E., K&E 4080-3, K&E 4081-3, K&E 4083-3, K&E 4090-3, K&E 4091-3, K&E 4092, K&E 4093-3, K&E 4093-5, K&E 4110), Log log duplex vector.

jos-index-v1-n1-1992-item11-page24.txt

Title: "Büro-Antik" Auction in Köln, November 1991.

Author: Otnes, Bob.

Summary: Description of slide rules sold and prices received, November 2, 1991.

Keywords: Loga cylinder, Rechenwalze cylinder, Charpentier circular, Nestler, Thacher, Fuller, Otis King, Tröger circular, Boucher Pocket, Nestler cylinder, Stephen's Supermatic, Halden's Calculex, Faber, K&E duplex,

jos-index-v1-n1-1992-item12-page26.txt

Title: Slide Rule Reviews

Author: Shepherd, Rodger; Otnes, Bob;

Summary: Review of some slide rule publications that would greatly add to a collector's library

Keywords: Aristo, Pickworth C.N., Kidwell P. A., Nystrom's Calculating Rule, Knight R., Malt Gauger slide rule

jos-index-v1-n1-1992-item13-page28.txt

Title: Information

Author: Editor

Summary: This department has short book reviews, bits and pieces of information and, in general, material worth knowing.

Keywords: K&E Mannheim and Polyphase slide rules, Patent dates,

jos-index-v1-n1-1992-item14-page28.txt

Title: Letters

Author: Editor

Summary: A variety of letters received, with checks, after the prototype was distributed.

Keywords: K&E Mannheim and Polyphase slide rules, Patent dates,

## Vol. 1, No. 2, Fall 1992

jos-index-v1-n2-1992-item1-page2.txt

Title: The Journal of the Oughtred Society

Author: Editor

Summary: description of the growth of the Journal of the Oughtred Society

jos-index-v1-n2-1992-item1-page2.txt

Title: The June 1992 Meeting in Oakland

Author: Shepherd, Rodger

Summary: Report on second annual meeting

jos-index-v1-n1-1992-item3-page5.txt

Title: Oughtred Society Principles

Author: Price, Osborne

Summary: Description of the Oughtred Society, its scope of interest, membership and publication

jos-index-v1-n1-1992-item4-page6.txt

Title: Comments on Slide Rule Nomenclature.

Author: Hudson, Don

Summary: Outlines terms used in describing and grading slide rule types and sizes, both linear and circular.

Keywords: Grade, condition, linear, circular, Mannheim, simplex, simplex disk, duplex, duplex disk, half duplex, polyphase, reitz, Darmstadt.

jos-index-v1-n1-1992-item5-page11.txt

Title: Slide Rule Pencils.

Author: Otnes, Bob

Summary: Describes three pencils with built-in slide rules, with photos.

Keywords: Ruxton, Devco, Monroe, Device Development Company, K&E

jos-index-v1-n1-1992-item6-page13.txt

Title: Gilson Slide Rule Revisited.

Author: Aldinger, Henry

Summary: Describes the Gilson Midget slide rule, with photos.

Keywords: Gilson R., Gilson Midget.

jos-index-v1-n1-1992-item7-page15.txt

Title: The Hart Equationor.

Author: Schure, Conrad

Summary: Describes the use of this "Equationor or universal calculator" made by the Equationor Company, with photo.

Keywords: Hart W., Cajori, Hart Equationor, Universal Calculator

jos-index-v1-n1-1992-item8-page17.txt

Title: The Small Calculator –Part II.

Author: Schure, Conrad

Summary: Discusses the patent history of the Small Calculator.

Keywords: Conant R., Small G I circular, Small Pocket Calculator

jos-index-v1-n1-1992-item9-page19.txt

Title: Slide Rule Cross Sections.

Author: Schuitema, Izebrand

Summary: History and development of slide rules on the basis of German patents, with photos.

Keywords: Mannheim A, Mannheim slide rule, four sided rule, foot rule, Mack slide rule, Givan D., Mack D., Dennert & Pape, Nestler A., Nestler slide rule, Stahl W, Bachmann H, Faber A W, Faber slide rule, Faber-Castell slide rule, Remers K., Nachf J. B. S., Soellner slide rule, Aristo slide rule, Reiss A.W. C., Tegymayer H., Aristo-Werke, Dennert & Pape, Nelting R., Nelting slide rule, Gerwin F., Gerwin slide rule, Seehase H., Welsch G., Rothenfluh A., Seehase H, Seehase slide rule, Schwanda J, Schwanda slide rule, Daemen-Schmidt H, Daemen-Schmidt slide rule, Cartier R., Cartier slide rule, Goldstaub H. H., Goldstaub slide rule, Carter slide rule, LOGA, German patents

jos-index-v1-n1-1992-item10-page34.txt

Title: Chronology of Japanese Hemmi Slide Rules.

Author: Kadokura, Katsunori.

Summary: Outline of history of Hemmi Company.

Keywords: Hemmi, Keuffel & Esser, Hemmi, Oughtred, Mannheim A., Hemmi Hirota J. R., Kondou T, Hemmi Jorou and Company, Hemmi Seisakusho, Sun, Universal, models 120 152, 153, 165, 200, 253, 260, P261, P263,266, 269, 275, 279, 2664, 2664S, Ultra Accuracy, Accurate Stadia, MIGHT, Astronavigation, Percentage, Calorie, Navigation, Transmission, Communication Engineering, Artillery, Height Adjustment, Bamboo duplex.

jos-index-v1-n1-1992-item11-page39.txt

Title: How I Do It.

Author: Shepherd, Rodger.

Summary: The mechanics of collecting slide rules, including the tools necessary for cleaning and servicing

Keywords: Cleaning, tools.

jos-index-v1-n1-1992-item12-page41.txt

Title: The Market Report.

Author: Otnes, Bob

Keywords: Coggeshall folding rule, Fuller, Tröger circular, Tröger Cylinder, Fowler's Long Scale, Fowler's Magnum, Fowler's Textile, Boucher, National Cylinder, Faber Präzision, Nestler Demo, Lord's Calculator.

jos-index-v1-n1-1992-item13-page43.txt

Title: Slide Rule Reviews – German Calculator Book (1925)

Author: Martin, Ernst (Translators: Peggy Aldrich Kidwell & Michael R. Williams)

Summary: A translation of a 1925 German book, *Die Rechenmaschinen* and now available as Volume 16 in the Charles Babbage Institute Reprint Series for the History of Computing and available from MIT Press

Keywords: Martin E., calculating machines,

jos-index-v1-n1-1992-item14-page44.txt

Title: Information.

Author: Editor

Summary: Description of the rules used by the British Inland Revenue Service to determine volume of alcohol containers and how purpose-built slide rules were used to determine the volumes for tax purposes.

Keywords: Gauge marks, British gallons

jos-index-v1-n1-1992-item15-page44.txt

Title: Letters

Author: Feazel, Bobby

Summary: Question about a Faber "Castell" slide rule marked Columbus and also Syst. Rohrberg

Keywords: Faber Castell Columbus slide rule

## Vol. 2, No. 1, Spring 1993

jos-index-v2-n1-1993-item1-page1.txt

Title: The June, 1993 Meeting

Author: Editor

Summary: A list of rules for those members with items to sell at the meeting but will not be able to attend.

Keywords: Sale of slide rules

jos-index-v2-n1-1993-item2-page2.txt

Title: Photographic Standards

Author: Editor

Summary: A list of rules about photographic standards for those members who wish to submit articles for publication with photographs

Keywords: photographing slide rules

jos-index-v2-n1-1993-item3-page3.txt

Title: Cajori and Scanning

Author: Editor

Summary: Article discusses methods of reproducing Cajori's book for publication

Keywords: Cajori, reproduction

jos-index-v2-n1-1993-item4-page4.txt

Title: The Keuffel & Esser Issue

Author: Editor

Summary: Article outlines why this issue of the JOS is devoted to the subject of the Keuffel & Esser Company, its slide rules and some of the individuals who made notable contributions to the development of the slide rule

Keywords: Keuffel & Esser, K&E

jos-index-v2-n1-1993-item5-page5.txt

Title: W. L. E. Keuffel

Author: Keuffel, W. L. E.

Summary: Excerpt from book "The First Quarter of my Life" published 1936, which describes the Author's early years.

Keywords: Keuffel W. L. E.,

jos-index-v2-n1-1993-item6-page12.txt

Title: A Pioneering K&E Engineer

Author: From a 1967 K&E Brochure

Summary: Give a brief description of W.L.E. Keuffel's contributions to K&E

Keywords: Keuffel W. L. E.,

jos-index-v2-n1-1993-item7-page14.txt

Title: Obituary of Willie L.E. Keuffel

Author: New York Times, page 29, column 4, May 6, 1952

Summary: Obituary of W.L.E. Keuffel

Keywords: Keuffel W. L. E.,

jos-index-v2-n1-1993-item8-page15.txt

Title: The Jack Burton Collection

Author: Editor

Summary: Photographs and descriptions of six slide rules in Jack Burton collection  
Keywords: Burton J, Keuffel W. L. E., K&E Power Computer, K&E 4098 metal Duplex, Webb's Stadia slide rule 4105, K&E Universal slide rule, K&E 4095 Triangular metal slide rule,

jos-index-v2-n1-1993-item9-page19.txt

Title: The K&E Braille Slide Rule

Author: Anthony, Gordon

Summary: Mr. Anthony, an employee of K&E for 39 years, describes a Braille slide rule that K&E produced on request. Photographs are included

Keywords: K&E Braille slide rule,

jos-index-v2-n1-1993-item10-page21.txt

Title: The K&E Document

Author: Keuffel & Esser pamphlet on Thacher; comments by Otnes, Bob

Summary: The history of Edwin Thacher's Calculating Instrument from a K&E handout is reprinted and critiqued.

Keywords: Thacher E., Thacher's Calculating Instrument

jos-index-v2-n1-1993-item11-page26.txt

Title: The Rare K&E 4110, An "Improved" Mannheim Rule

Author: Price, Osborne I

Summary: The K&E 4110 is described

Keywords: K&E 4110, Improved Mannheim,

jos-index-v2-n1-1993-item12-page28.txt

Title: The Conrad Schure Collection

Author: Schure, Conrad

Summary: Described are the Thacher's Slide Rule, a military slide rule, the K&E Fraction Adder, the clam-shell cursor and the family of Cox patent duplex slide rules, with accompanying photographs.

Keywords: Schure C., Thacher's slide rule, Military slide rule, Cox W., K&E Fraction adder, clam-shell cursor, Cox Patent Duplex slide rules,

jos-index-v2-n1-1993-item13-page34.txt

Title: Keuffel & Esser Patents

Author: Price, Osborne I

Summary: A table of K&E slide rule patents are described.

Keywords: K&E Patents

jos-index-v2-n1-1993-item14-page38.txt

Title: How I Do It (No. 2): Cleaning and Servicing K&E Slide Rules

Author: Shepherd, Rodger

Summary: Describes how to clean and restore K&E Slide Rules.

Keywords: cleaning slide rules, K&E, Softscrub

jos-index-v2-n1-1993-item15-page40.txt

Title: The Runner

Author: Larson, Mel

Summary: A short discussion on the slide rule runner, indicator or cursor and the different types employed over the years. Photographs 'of different types included.

Keywords: framed glass runner, cylindrical sleeve frame with glass, frameless glass runner, light framed glass runner, light plastic runner, all plastic runners,

jos-index-v2-n1-1993-item16-page47.txt

Title: Runner, Indicator, or Cursor?

Author: Larson, Mel

Summary: a discussion of the different names for the little gadget that moves along the slide rule body to point out the area in which you are working.

Keywords: Runner, indicator, cursor, K&E

jos-index-v2-n1-1993-item17-page49.txt

Title: K&E Issue –Concluding Thoughts

Author: Editor

Summary: Some of the material about K&E that was not covered in this issue of the JOS

Keywords: K&E, Cox W.

jos-index-v2-n1-1993-item18-page50.txt

Title: The Market Report

Author: Otnes, Bob

Summary: Report on some of the results on purchase price of selected slide rules from recent auctions

Keywords: Büro-Antik , slide rule values

jos-index-v2-n1-1993-item19-page51.txt

Title: Letters

Author: Schure, Conrad

Summary: Comments on the proposed Oughtred Society rules followed by editor's response

Keywords: Oughtred Society rules, Schure C.

jos-index-v2-n1-1993-item20-page52.txt

Title: Letters

Author: Hudson, Don

Summary: Corrections in Author's article in the JOS v1, no 2

Keywords: Rietz M., Hudson D.

## Vol. 2, No. 2, Fall 1993

jos-index-v2-n2-1993-item1-page1.txt

Title: The June 1993 Meeting in Oakland

Author: Shepherd, Rodger

Summary: Overview of 1993 annual meeting

Keywords: Oughtred Society Annual meeting

jos-index-v2-n2-1993-item2-page3.txt

Title: The Rietz System and Max Rietz

Author: von Jezierski, Dieter

Summary: A discussion of the Rietz slide rule scales system and the man who gave his name to the system, Max Rietz.

Keywords: Rietz M., Nestler Rietz-Duplex,

jos-index-v2-n2-1993-item3-page5.txt

Title: The End of the Aristo Slide Rules: A Case History

Author: Shepherd, Rodger

Summary: Discussions with Hans Dennert about the impact of electronic calculators on slide rule production.

Keywords: Dennert & Pape, Aristo, Astralon, Dennert H, Dynamit Nobel, polyvinylchloride, Rotring, Koh-I-Noor, electronic calculators, Texas Instrument, Hewlett-Packard

jos-index-v2-n2-1993-item4-page8.txt

Title: Gilson, Richard A

Author: Gilson Richard A. & Feazel, Bobby

Summary: A series of letters written by Richard A. Gilson describing the history of the Gilson Slide Rule Company. Includes a drawing of a Gilson slide rule.

Keywords: Gilson Slide Rule, Gilson R. A.,

jos-index-v2-n2-1993-item5-page13.txt

Title: German Patents and the Columbia

Author: Rudowski, Werner H

Summary: Outline of the differences between German patents and "Gebrauchsmuster" (registered trade marks) and gives a table giving the relationship between patent number and the year of notification, until 1942. Also discusses the "Columbus" system Rohrbereg slide rule and the spelling of Max Rietz's last name

Keywords: "Columbus" system Rohrbereg, "Gebrauchsmuster", German patents, D.R., D.R.P., System Rietz, Faber-Castell

jos-index-v2-n2-1993-item6-page15.txt

Title: An Error on a Slide Rule for 50 Years?

Author: Babcock, Bruce

Summary: Discussion of an error on an engineers slide rule that was left uncorrected from 1841 to 1892.

Keywords: Roberts K, steam cylinder, pumping engine, gage point, Hoare C,

jos-index-v2-n2-1993-item7-page18.txt

Title: How I Do It (No. 3 in a series)

Author: Sawyer, Herschel E.

Summary: Other approaches to cleaning and lubricating slide rules

Keywords: Lemon Joy, lemon oil furniture polish, GE polysiloxane, GE #2163,

jos-index-v2-n2-1993-item8-page21.txt

Title: letters

Author: Conrad, Jim

Summary: The subject of the letter was a response to Mel Larson (JOS Vol 2, No. 1, p47 1993) what to call the “runner” or “cursor”.

Keywords: cursor, runner,

jos-index-v2-n2-1993-item9-page22.txt

Title: Letters:

Author: Feely, Wayne E

Summary: A response to Katsunori Kadokura’s article “Chronology of Japanese Hemmi Slide Rules” (JOS, Vol 1, No. 2, pp 34-38 (1992) on the spelling of “Hemmi”

Keywords: Hemmi J., Hemmi slide rules, Hemmi Bamboo Slide Rule Mfg. Co., Hemmi Seisakusho Co.,

jos-index-v2-n2-1993-item10-page24.txt

Title: The ALRO Circular Slide Rule

Author: Schuitema, Izebrand

Summary: Discusses the history, applications and properties of the ALRO, a Dutch circular slide rule. A number of photos are included

Keywords: ALRO slide rule, Dussel C. J., Pasveer W., circular slide rule, military circular slide rule, KLM-disc, Bio-rhythm disc, Clinical circular disc, Chemical disc, Lips A.,

jos-index-v2-n2-1993-item11-page38.txt

Title: The Market Report

Author: Otnes, Bob

Summary: Results of the “Büro-Antik” auction in Köln

Keywords: “Büro-Antik” auction,

jos-index-v2-n2-1993-item12-page39.txt

Title: Book Reviews

Author: Editors

Summary: Reviewed *Of Time and Measurement* by A. J. Turner, *A Modern Difference Engine: Software Simulators for Charles Babbage’s Difference Engine No. 2* by James Donnelly, *The International Calculator Collector, and Baldwin’s Improved Calculating Machines* by Frank S. Baldwin

Keywords: “Büro-Antik” auction, Turner A. J., Donnelly J., Baldwin F. S.

## Vol. 3, No. 1, Spring 1994

jos-index-v3-n1-1994-item1-page1.txt

Title: The Journal of the Oughtred Society

Author: Shepherd, Rodger

Summary: Agenda for the Forth Annual Meeting of the Oughtred Society, June 25, 1994 in Oakland CA. Request for an east coast meeting.. Suggestions of possible documents that the society might reprint.

Keywords: Cajori's History, East Coast Meeting,

jos-index-v3-n1-1994-item2-page3.txt

Title: Dennert & Pape and Keuffel & Esser

Author: Dennert, Hans

Summary: The Author:, a grandson of Johann Christian Dennert, a founder of Dennert & Pape, outlines the history of the company based on both documented records and oral tradition.

Keywords: Aristo, Dennert J. C., Dennert & Pape, Keuffel & Esser, Mannheim A., Dietzgen, D&P, Cox Duplex rule, K&E 1744,

jos-index-v3-n1-1994-item3-page7.txt

Title: How I Do It

Author: Shepherd, Rodger

Summary: This is number four in a short series about the mechanics of collecting slide rules, focusing on Record Keeping.

Keywords: Record keeping

jos-index-v3-n1-1994-item4-page9.txt

Title: Palmer's Computing Scale

Author: Feazel, Bobby

Summary: A discussion of Aaron Palmers *Endless Self Computing Scale*, outlining the history of the scale, its introduction problems, the series of instruction books published by Palmer and how Palmer's sales methods may have delayed acceptance of slide rules in the U.S. for 40-50 years.

Keywords: Cajori, Palmer's Computing Scale, Palmer A, Smith G. G., Fuller J. E., Fuller's Computing Scale, Fuller's Time Telegraph, circular slide rule

jos-index-v3-n1-1994-item5-page18.txt

Title: The "Cooper" 100-inch Slide Rule

Author: Bennett, Al

Summary: Describes the layout and operation of the "Cooper", a 10-inch rule with the equivalence of a 100-inch slide rule.

Keywords: Stanley W. F., Pickworth,

jos-index-v3-n1-1994-item6-page20.txt

Title: The Scofield-Thacher Slide Rule

Author: Schure, Conrad

Summary: Describes a 24-inch slide rule developed by Edson Mason Scofield and called a Three Multiple slide rule". A modification was patented by Edwin Thacher in 1901 and sold by the Eugene Dietzgen Co as "The Engineer's Slide Rule". A comparison between the production model and the prototype is made.

Keywords: Schofield E.M., Thacher E., Schofield-Thacher slide rule, Engineers slide rule, Dietzgen 1787

jos-index-v3-n1-1994-item7-page26.txt

Title: A Guided Tour of an 18<sup>th</sup> Century Carpenter's Rule

Author: Babcock, Bruce

Summary: The history of carpenter's rules is outlined, describing the aspects of the Coggeshall-type including the arrangement of the scales, the construction of the joint, the gauge points on the rule, the table of timber measurements, the architect's scales, and the alignment of the markings, the right-to-left numbering, materials of construction, the accuracy and some other details.

Keywords: Carpenter's rule, Gunter, Coggeshall H., Cajori, Assheton R., Gunter's scale, gauge points, Voster, Architect's scales,

jos-index-v3-n1-1994-item8-page35.txt

Title: Letters

Author: Stanley, Philip E.

Summary: Describes the errors found on Routledge-pattern engineers sliding rules. It also addresses questions raised in Bruce Babcock's article on errors on an engineer's rule. (JOS Vol 2, No 2, Page 15)

Keywords: Babcock B., Routledge-pattern, engineers sliding rules

jos-index-v3-n1-1994-item9-page38.txt

Title: Letters

Author: Feely, Wayne E.

Summary: A discussion the spelling of Jirou Hemmi's name in an article by Katsunori Kadokura (JOS Vol. 1, No. 2. page 34).

Keywords: Hemmi J.,

jos-index-v3-n1-1994-item10-page 39.txt

Title: The Market Report

Author: Otnes, Bob

Summary: Author: discusses trip to Europe and purchases he made. Also listed are some prices paid at the Köln auction for selected slide rules and a Russian slide rule sold at Sotheby's.

Keywords: Köln auction, Sotheby's

jos-index-v3-n1-1994-item11-page 44.txt

Title: Paper

Author: Otnes, Bob

Summary: Preservation of books and papers published after 1850

Keywords: paper preservation

## Vol. 3, No. 2, Fall 1994

jos-index-v3-n2-1994-item1-page1.txt

Title: The Journal of the Oughtred Society

Author: Otnes, Bob

Summary: A discussion of the contents of the current issue

Keywords: Journal of the Oughtred Society

jos-index-v3-n2-1994-item2-page2.txt

Title: The March Meeting in Seattle

Author: Shepherd, Rodger

Summary: Comments on an impromptu meeting in Seattle, March 1994

Keywords: Oughtred Society Meeting

jos-index-v3-n2-1994-item3-page2.txt

Title: The June Meeting in Oakland

Author: Shepherd, Rodger

Summary: Comments on an the annual meeting of the Oughtred Society held in Oakland CA June 25, 1994

Keywords: Oughtred Society Annual Meeting

jos-index-v3-n2-1994-item4-page5.txt

Title: As Analysis of the Survey

Author: Lehnert, Wayne

Summary: Results of a survey of members of the Oughtred Society, with 169 respondents.

Keywords: Oughtred Society Survey

jos-index-v3-n2-1994-item5-page7.txt

Title: Napier and the Invention of Logarithms

Author: Ayoub, Raymond

Summary: A discussion of the invention of logarithms by John Napier

Keywords: Napier J., Copernicus, Brahe T., Kepler, Galileo, Table of Logarithms, decimal representation of numbers, Briggs H., Wright E., Invention of logarithms .

jos-index-v3-n2-1994-item6-page14.txt

Title: Some Notes on the History and Use of Gunter's Scale

Author: Babcock, Bruce E.

Summary: Edmund Gunter, a contemporary of Oughtred, created a scale by laying out a table of logarithms on a rule using marks to designate the values of the logarithms. On this rule, the location of the marks was proportional to the values of the logarithms and measured using dividers. Descriptions of the use of the various Gunter scales are discussed

Keywords: Gunter scale, carpenter's rule,

jos-index-v3-n2-1994-item7-page21.txt

Title: Bonnycastle on Gauging

Author: Otnes, Robert K.

Summary: An excerpt taken from an appendix on gauging in *An Introduction to Mensuration and Practical Geometry* by John Bonnycastle (1833), describes how slide rules can be used to measure the volume of barrels for the purpose of taxing the contents.

Keywords: ullaging, gauging rule,

jos-index-v3-n2-1994-item8-page27.txt

Title: An Update on D&P and K&E Slide Rules

Author: Dennert, Hans

Summary: an update on an article earlier presented by the Author: (JOS Vol. 3, No. 1, pp3-6 (1994))

Keywords: Dennert H., Dennert & Pape, Astralon (PVC), Mannheim slide rule, Cox W., K&E No 1744, K&E No 1746/4040

jos-index-v3-n2-1994-item9-page29.txt

Title: Figures on the Insert

Author: Editor

Summary: Examples of slide rules discussed in this volume

Keywords: Farmar's Spirit Rule, ivory spirit rule, Gunter rule, K&E slide rule, K&E Duplex, Cox, Everard's slide rule

jos-index-v3-n2-1994-item10-pag30.txt

Title: Paper

Author: Otnes, Bob

Summary: Discusses the preservation of paper in items such as slide rule instruction sheets, advertisements, etc.

Keywords: paper preservation, acid paper, pH testing pen, WEI T'O,

jos-index-v3-n2-1994-item11-page31.txt

Title: Spirit Rules

Author: Schuitema, IJzebrand

Summary: discusses spirit rules (e.g. slide rules used in assessing taxes or duties on wine and alcohol) by excerpts from Dutch patents granted to F.C. Farmar in 1900 which describes how the rule is to be used. Some practical demonstrations are given

Keywords: Farmar's Spirit Rule, Farmar F. C., ivory rule,

jos-index-v3-n2-1994-item12-page38.txt

Title: Thacher Slide Rule Production

Author: Feely, Wayne; Schure, Conrad

Summary: It attempts to establish an approximate time frame and production rates for three variations of the two basic models.

Keywords: Thacher E., manufacture, Stanley W. F., Thacher slide rule, K&E,

jos-index-v3-n2-1994-item13-page43.txt

Title: Special Purpose Slide Rules

Author: Feazel, Bobby

Summary: slide rules produced to solve a specific or "special" problem. A few examples might include merchants, chemical, hydraulic, surveying, military, navigation, nuclear, statistical, and astronavigation.

Keywords: Pickett 500, special slide rules, Hemmi, K&E, sewer rules, Gilson, Dietzgen, Cajori,

jos-index-v3-n2-1994-item14-page45.txt

Title: Short Subjects

Author: Schure, Conrad; Wyman, Tom; Shepherd, Rodger; Feely, Wayne E.

Summary: A series of short topics is discussed including electronic slide rule calculators, when is a slide rule not a slide rule, the marks found on Tavernier-Gravet slide rules, Pickett metal slide rules, and the engineer's rule.

Keywords: Tavernier-Gravet, Pickett, Dahl Manufacturing Co., Master slide rule, Scofield E. M., Edwin Thacher Pickett metal slide rules, engineer's rule

jos-index-v3-n2-1994-item16-page50.txt

Title: The Market Report

Author: Otnes, Bob

Summary: Slide rule prices at the Spring Breker auction, the Rangeley collection at the Tennants auction

Keywords: Breker, Rangeley, K&E

jos-index-v3-n2-1994-item17-page52.txt

Title: Book Reviews

Author: Shepherd, Rodger; Gingrich, Mark; Otnes, Bob

Summary: Article reviewed the following books; *Collecting – An Unruly Passion*, by Muensterberger, *Solving Kepler's Equation Over Three Centuries* by Peter Colwell and both *A History of the Logarithmic Slide Rule and Allied* and *On the History of Gunter's Scale and the Slide Rule During the Seventeenth Century*, both by F. Cajori

Keywords: Muensterberger, Colwell P., Cajori F.

## Vol. 4, No. 1, Fall 1995

jos-index-v4-n1-1995-item1-page1.txt

Title: The Journal of the Oughtred Society

Author: Otnes, Bob

Summary: Additional organization for the Journal of the Oughtred Society

Keywords: Journal of the Oughtred Society

jos-index-v4-n1-1995-item2-page1.txt

Title: Jack Burton 1918 -1994

Author: Otnes, Bob

Summary: Obituary for former member Jack Burton

Keywords: Burton J.,

jos-index-v4-n1-1995-item3-page2.txt

Title: The June 1995 Meeting in Oakland

Author: Otnes, Bob

Summary: Agenda for the Fifth Annual Meeting of the Oughtred Society, June 24<sup>th</sup> in Oakland CA

Keywords: Annual Meeting of the Oughtred Society

jos-index-v4-n1-1995-item4-page2.txt

Title: The September 1995 Meeting in New Jersey

Author: Otnes, Bob

Summary: Agenda for the east coast Meeting of the Oughtred Society, September 23<sup>rd</sup> in Hightstown, NJ

Keywords: East coast Meeting of the Oughtred Society

jos-index-v4-n1-1995-item5-page3.txt

Title: The November 1995 Meeting in Utrecht

Author: Otnes, Bob

Summary: Agenda for the November 10-11 meeting in Utrecht, Holland

Keywords: Utrecht Holland,

jos-index-v4-n1-1995-item6-page3.txt

Title: The Calculator Meeting in Dallas

Author: Otnes, Bob

Summary: Agenda for the May 20<sup>th</sup> Antique Scientific Instrument and Calculator Show in Dallas TX

Keywords: Antique Scientific Instrument and Calculator Show

jos-index-v4-n1-1995-item7-page4.txt

Title: Article by Thacher

Author: Thacher, Edwin

Summary: This article, supplied as a supplement to the JOS, was read at a scientific meeting in 1882. Thacher discusses several types of slide rules in this article, including the Fuller.

Keywords: Fuller, Thacher E., Gunter

jos-index-v4-n1-1995-item8-page5.txt

Title: Palmer's Computing Scale-Revisited

Author: Feazel, Bobby

Summary: Update on an article published in the JOS Vol 3, No 1 1994

Keywords: Palmer's Computing Scale, Cajori F., Marsh G.V.,

jos-index-v4-n1-1995-item9-page9.txt

Title: Log Log Scales – Revisited

Author: Otnes, Bob

Summary: Article provides additional information about the history of the Keuffel & Esser log log slide rule

Keywords: K&E log log slide rule, Blanc F., Bland J. R., Yokata S., log log, Bland rule,

jos-index-v4-n1-1995-item10-page12.txt

Title: The A. W. Faber-Castell Columbus System

Author: von Jezierski, Dieter

Summary: A full account of the A. W. Faber-Castell Columbus System. A photograph accompanies the article

Keywords: A. W. Faber-Castell Columbus System, Rohrberg A.,

jos-index-v4-n1-1995-item11-page14.txt

Title: Translation of the Instructions for the Columbus

Author: Schuitema, IJzebrand

Summary: Translation of the instructions for the A. W. Faber-Castell Columbus slide rule

Keywords: A. W. Faber-Castell Columbus slide rule, simple interest,

jos-index-v4-n1-1995-item12-page16.txt

Title: Branam's Rule An Undervalued Slide Rule

Author: Knight, Richard

Summary: Discussion of the description and use of Branam slide rules. A photograph accompanies the article

Keyword: Branam's rule, Malt Gauging,

jos-index-v4-n1-1995-item13-page16.txt

Title: George Ward and The Gauger's Practice...

Author: Babcock, Bruce

Summary: A discussion of the book *The Gauger's Practice: or the practical way how to Gauge and Inch Brewers Tuns; and the Gauging of Casks, according to the True RULES of the ART*, written by George Ward in 1693

Keywords: Gauge-point, gauging, Ward G., Cajori, Coggeshall carpenter's rule, gauging

jos-index-v4-n1-1995-item14-page26.txt

Title: Schact & Westerich Calculator

Author: Bennett, Al

Summary: Discussion of the Schact & Westerich Calculator, a two sided, 2 ½ inch diameter pocket watch calculator.

Keywords: pocket watch slide rule, Schact & Westerich Calculator

jos-index-v4-n1-1995-item15-page27.txt

Title: Interesting Variations in the First Metal Pickett

Author: DeCesaria, Robert; Shepherd, Rodger; and Baron, Ray.

Summary: Discussion of the Pickett Deci-Point, the first metal slide rule issued by Pickett.

Photographs accompany the article

Keywords: Pickett & Eckel, Deci-Point

jos-index-v4-n1-1995-item16-page28.txt

Title: Key to Centerfold

Author: Editor

Summary: Drawings and photographs of slide rules discussed in this volume

Keywords: Pickett Model 1, Columbus slide rule, Branan's slide rule, Pfiffikus rule, Mini-2000, DeBeers Diamond rule, Helance Garn Rechner, Lufthansa B 747-B fueling computer, Logomat V and G 816, Appoullot T3 circular slide rule, Logomat, Sili-Rechner

jos-index-v4-n1-1995-item17-page29.txt

Title: Logomat Werbeartikel (Logomat Advertising Articles)

Author: Schuitema, IJzebrand

Summary: A discussion of the Logomat, a company that produced circular slide rules that their customers could use as an advertising item. A number of photographs of these slide rules accompany the article.

keyword: Logomat, circular slide rule, Advertising Articles,

jos-index-v4-n1-1995-item18-page33.txt

Title: The Fuller Calculating Instrument

Author: Feely, Wayne; Schure, Conrad

Summary: In the paper, the Author's begin to piece together the facts concerning the history, manufacture, distribution and types of Fuller Calculators. A drawing of the Fuller Calculator accompanies the article.

Keywords: Fuller Calculators, Fuller Slide Rule, Fuller G., Schute N., K&E, Stanley W.F., Stanley Instruction Book, Fuller-Bakewell slide rule, Midget Fuller slide rule,

jos-index-v4-n1-1995-item19-page41.txt

Title: Two Nobel Attempts to Improve the Slide Rule

Author: Babcock, Bruce E.

Summary: The article discusses the Lurie Precision slide rule and the Richardson Pyramid slide rule as two attempts to increase accuracy of the slide rule without increasing their length.

Drawing of each accompany article

Keywords: Lurie A.N., Lurie Precision slide rule, Richardson Pyramid slide rule, Richardson G. W.,

jos-index-v4-n1-1995-item20-page46.txt

Title: An Example of Napierian Logarithms

Author: Otnes, Bob

Summary: The article shows an example of a page of logarithms and explains how it was used.

Keywords: Napier J., logarithms

jos-index-v4-n1-1995-item21-page48.txt

Title: The Appoullot Circular Slide Rule

Author: Schuitema, IJzebrand

Summary: Discussion of the Appoullot slide rule and its use, accompanied by a both a drawing and a photograph

Keywords: Appoullot L., Appoullot circular slide rule,

jos-index-v4-n1-1995-item22-page53.txt

Title: Letters

Author: Knight, Richard

Summary: Author: describes some errors in a previous article by Bruce Babcock JOS V3 No. 1

Keywords: Appoulot L., circular slide rule,

jos-index-v4-n1-1995-item23-page54.txt

Title: Book Reviews

Author: editor

Summary: The books reviewed are *The Encyclopedia of the History of Computing*, edited by Mark Greenia; *A History of Pi* by Petr Beckmann, *Landmarks in Digital Computing* by Peggy A. Kidwell and Paul E. Ceruzzi; *The Story of a Number* by Eli Maor; *Slide Rule, the Autobiography of an engineer* by Nevil Shute, *Mathematical Instruments in Antiquity and the Middle Ages* by A. J. Turner

Keywords: Greenia M., Beckmann P., Kidwell P.A., Ceruzzi P.E., Maor E., Shute N.

jos-index-v4-n1-1995-item24-page55.txt

Title: Travels and the Market Report

Author: Otnes, Bob

Summary: Prices obtained by selected slide rules at the 1994 Cologne auction

Keywords: Cologne auction

## Vol. 4, No. 2, Fall 1995

jos-index-v4-n2-1995-item1-page1.txt

Title: The Journal of the Oughtred Society

Author: Otnes, Bob

Summary: Discussion of s board meeting to discuss future of the JOS

Keywords: Journal of the Oughtred Society

jos-index-v4-n2-1995-item2-page1.txt

Title: The Annual June Meeting in Oakland

Author: Schure, Conrad

Summary: Overview of Annual Meeting of the Oughtred Society held June 24, 1995 in Oakland, CA

Keywords: Annual Meeting of the Oughtred Society

jos-index-v4-n2-1995-item3-page3.txt

Title: The September Meeting in New Jersey

Author: Schure, Conrad

Summary: Overview of Meeting of the Oughtred Society held September 23, 1995 in Hightstown, NJ

Keywords: New Jersey Meeting of the Oughtred Society

jos-index-v4-n2-1995-item4-page5.txt

Title: Oral Histories

Author: Schuitema, Ir. IJ.

Summary: The article outlines the value and importance of obtaining oral histories of people associated with the development and manufacture of slide rules, with some of the Author's own examples given.

Keywords: Alro circular slide rule, Logomat circular slide rule, von Below G., Matthijssen, Green A. E. S.,

jos-index-v4-n2-1995-item5-page7.txt

Title: Nystrom's Calculator

Author: Miller, R. C.

Summary: The article describes the history and operation of the Nystrom's Calculator based on patents and articles. An original description and key to the use of the calculator is reprinted.

Keywords: Nystrom's calculator, circular slide rule

jos-index-v4-n2-1995-item6-page14.txt

Title: A Page from the 1883 Keuffel & Esser Catalog

Author: Otnes, Bob

Summary: Page 93 from an 1883 K&E catalog is reproduced and discussed.

Keywords: Keuffel & Esser, K&E Catalogue, Gunter, Thacher, Engineers slide rules,

jos-index-v4-n2-1995-item7-page16.txt

Title: Fowler & Company 1898-1988

Author: Knott, John V.

Summary: A history of William Henry Fowler and the Fowler circular calculator is described. A photograph of Fowler Circular Slide Rules accompanies the article.

Keywords: Fowler W. H., Fowler circular calculator,

jos-index-v4-n2-1995-item8-page18.txt

Title: Model Designations of Modern Era K&E Slide Rules

Author: Morris, Alan

Summary: This paper clarifies the model designations of the ten-inch K&K (Keuffel & Esser) log0log rules made in the period from the late 1930s to the early 1970s. It includes a lists of certain terms and their definitions.

Keywords: K&E, Keuffel & Esser, duplex slide rules, K&E Series 4080; 4081

jos-index-v4-n2-1995-item9-page25.txt

Title: Joshua Routledge 1775 -1829

Author: Knott, John V.

Summary: This paper outlines the life of Joshua Routledge, who invented the Routledge two-foot folding Engineers Slide Rule.

Keywords: Routledge J., Engineers Slide Rule

jos-index-v4-n2-1995-item10-page26.txt

Title: How Briggs Computed Logarithms

Author: Otnes, Bob

Summary: This paper describes how Henry Briggs computed the first table of logarithms to the base 10 using the method of mean proportionals.

Keywords: Briggs H., logarithms, mean proportionals,

jos-index-v4-n2-1995-item11-page27.txt

Title: Colby's Slide Rule

Author: Feazel, Bobby C.

Summary: This paper discusses the Colby Slide Rule and how it is used. A drawing accompanies the article.

Keywords: Colby's slide rule, Colby's Sewer Computer,

jos-index-v4-n2-1995-item12-page30.txt

Title: Explanation of the Insert

Author: Editor

Summary: The insert contains photographs from the June meeting of the Oughtred Society in Oakland, CA and photographs and drawings of slide rules discussed in this issue.

Keywords: Gauging rules, Fowler circular calculators, K&E Student's slide rules

jos-index-v4-n2-1995-item13-page31.txt

Title: Translation of an Article on F. Blanc's Slide Rule

Author: Shepherd, Rodger

Summary: This paper is a translation of the article: "Model of the Log-Log Slide Rule" by Engineer F. Blanc of Hamburg, published in Dyck's catalogue, Munich 1892/93.

keyword: Blanc F., Log-Log slide rule,

jos-index-v4-n2-1995-item14-page31.txt

Title: Otis King Update

Author: Hopp, Peter

Summary: The article gives a simplified listing of Otis King rules and ways to differentiate between the three types. Drawings accompany article.

Keywords: Otis King slide rules, cylindrical slide rule, Otis King Model K, Otis King Model L

jos-index-v4-n2-1995-item15-page41.txt

Title: K&E Student's and Beginner's Slide Rules – 1897 to 1954

Author: Babcock, Bruce

Summary: The K&E Student and beginner's slide rule was offered by K&E from 1897 to 1954, with brief descriptions from many of the K&E catalogs.

Keywords: K&E Student's slide rule, beginner's Mannheim, Mannheim slide rule, K&E Model 4058W

jos-index-v4-n2-1995-item16-page50.txt

Title: Special Slide Rules of Faber-Castell

Author: von Jeziarski, Dieter

Summary: This paper provides a list of all of the special slide rules made by Faber-Castell after 1945.

Keywords: Faber-Castell Demograph slide rule, Astralon (PVC),

jos-index-v4-n2-1995-item17-page53.txt

Title: The Customs and Excise Gauging Slide Rule

Author: Barnes, Colin

Summary: The Author: provides a set of instructions for this slide rule, supplied by HM Customs and Excise

Keywords: Custom and Excise slide rules and their use, gauging rule, Imperial system, Winchester system, Grove.

jos-index-v4-n2-1995-item18-page57.txt

Title: Letters to the Editor

Author: von Jeziarski, Dieter

Summary: Comments on previous article

Keywords: Schact & Westerich

## Vol. 5, No. 1, Spring 1996

jos-index-v5-n1-1996-item1-page1.txt

Title: Editorials and News

Author: Otnes, Robert

Summary: New Format; Front and Back Covers; Slide Rule Connections; Meetings: International Meeting in August 1996; International Meeting in 1997, Emil Pollak 1925-1995; An 1881 K&E Catalogue; Dietzgen

Keywords: Pollak E., K&E Catalogue 1881.

jos-index-v5-n1-1996-item2-page3.txt

Title: The November 1995 Meeting in Utrecht

Author: Otnes, Robert; Lloyd, Brian B; Schuitema, IJzebrand

Summary: Overview of the November 10, 1995 Joint Meeting of the Dutch Circle of Slide Rule Collectors and the Oughtred Society

Keywords: Dennert H., Kugel, Günter, van Poelje O., Craenen G..

jos-index-v5-n1-1996-item3-page11.txt

Title: The Thompson Log-Log Slide Rule

Author: Otnes, Bob

Summary: Paper describes the J.H. Thompson slide rule that resides in the London Museum of Science and Industry. Although it was not the first log-log slide rule, it appears to be the first that does both regular calculations and roots and powers on the same rule. A drawing accompanies the article.

Keywords: Thompson, J. H., log-log slide rule.

jos-index-v5-n1-1996-item4-page12.txt

Title: Log-Log Slide Rule of Blanc –Continued

Author: Kugel, Günter

Summary: This letter contributes additional information to the translation of Blanc's slide rule description, published in Dyck's catalogue, Munich, 1892/3, by Rodger Shepherd. (JOS V4, No.2, page 9 (1995). The letter includes translations of some letters to the editor of the Journal of the Society of German Engineers (VDI), vol. 45. p 720, 1901.

Keywords: Blanc E., log-log slide rule, Hemmi, K&E, Chicago Columbian Exposition.

jos-index-v5-n1-1996-item5-page14.txt

Title: Gurley Slide Rule

Author: Miller, R. C.

Summary: Paper describes a circular metal slide rule and a protractor made by the W & L. E. Gurley company and its markings. Photo accompanies the article

Keywords: circular slide rule, Gurley slide rule, Frankford Arsenal, Keuffel & Esser,

jos-index-v5-n1-1996-item6-page17.txt

Title: A Beer Slide Rule

Author: Schuitema, IJzebrand

Summary: Paper describes a slide rule designed by J. van Strien of Heineken Breweries to accompany a battery powered instrument to measure the amount of carbon dioxide present in a beer sample.

Keywords: van Strien J., Heineken Breweries, carbon dioxide, beer slide rule

jos-index-v5-n1-1996-item7-page18.txt

Title: The Centerfold

Author: Editor

Summary: Photographs from Utrecht Meeting and drawings and photographs relating to articles

Keywords: Utrecht Meeting, Blundell-Harling, Lawrence "Secret Code Maker", J. H. Thompson  
log-log slide rule,

jos-index-v5-n1-1996-item8-page19.txt

Title: The Blundell Vector Slide Rule

Author: Otnes, Bob and Schure, Conrad

Summary: The paper describes the special-purpose slide rule designed for doing complex vector operations.

Keywords: Blundell Rules Ltd., Blundell-Harling, vector slide rule, Hemmi 255

jos-index-v5-n1-1996-item9-page20.txt

Title: A Burton "Special"

Author: Feazel, Bobby C.

Summary: Paper describes some of the unusual prototype slide rules he discovered at an Oughtred Society meeting.

Keywords: Picker X-Ray, K&E,

jos-index-v5-n1-1996-item10-page21.txt

Title: A Geological Slide Rule

Author: Schuitema, IJzebrand

Summary: paper describes a geological slide rule developed as a simple calculating aid for the statistical evaluation of chemical and mineral resources and possible reserves.

Keywords: geochemical, de Wolde H. I., geological slide rule.

jos-index-v5-n1-1996-item11-page22.txt

Title: The Wollaston Chemical Slide Rule

Author: Schure, Conrad

Summary: Paper describes the chemical equivalents slide rule, published by William Cary in 1814, based on oxygen as the standard, at 10, Wollaston calculated the combining proportions of various substances and listed them on a logarithmic scale from 10 to 320. (a photograph of the slide rule accompanies the article.)

Keywords: Wollaston, Hyde W., Wollaston Chemical Slide Rule, Cary W., William, chemical equivalent slide rule, Cajori,

jos-index-v5-n1-1996-item12-page24.txt

Title: Faber-Castell Combination Rule

Author: von Jezierski, Dieter

Summary: Paper describes an attempt by Faber-Castell to produce pocket calculators, the TR1, with a four-function electronic calculator on one side and a slide rule on the other. The paper describes other "hybrids" produced by Faber-Castell. A photo of the F-B 67/98 Rb ELEKTRO accompanies the paper.

Keywords: Faber-Castell, TR1, 67/98 Rb ELEKTRO, Addiator Rietz

jos-index-v5-n1-1996-item13-page25.txt

Title: Update of Known Fuller and Thacher Rules

Author: Feely, Wayne

Summary: The result of an Oughtred Society questionnaire, more accurate estimates of the transition points in each series of rules. Paper is accompanied by tables of known Fuller and Thacher rules

Keywords: Thacher slide rules, Fuller slide rules W. F. Stanley, Keuffel & Esser,

jos-index-v5-n1-1996-item14-page30.txt

Title: Comment on the Fuller Listings

Author: Shepherd, Rodger

Summary: Paper analyzes the data generated in the in the previous paper (JOS Vol 5, No. 1 p25) and concludes that more Thacher rules have survived than Fuller rules but the Thachers are valued 4-5 times higher

Keywords: Thacher, Fuller, Fuller slide rule listings,

jos-index-v5-n1-1996-item15-page31.txt

Title: Letters: More on Routledge

Author: Knott, John V

Summary: Letter describes two booklets by Routledge and his engineering rule

Keywords: Routledge J, British Library.

jos-index-v5-n1-1996-item16-page31.txt

Title: Letters: On Buying a Slide Rule

Author: Hanson, Palmer O.

Summary: Letter describes the difficulty of purchasing a K&E Log-Log Duplex Decitrig slide rule at the University of Minnesota in 1946 because they were reserved for veterans because the bookstores were able to charge an additional fee for veterans.

Keywords: University of Minnesota, K&E Log-Log Duplex Decitrig

jos-index-v5-n1-1996-item17-page32.txt

Title: The Market Report

Author: Editor

Summary: Article describes the sale of slide rules at various auctions

Keywords: Cologne Auction,

jos-index-v5-n1-1996-item18-page33.txt

Title: Explanation of the Back Cover Sketch

Author: Babcock, Bruce

Summary: Paper describes the illustration that originally appeared in William Oughtred's "Circles of Proportion and the Horizontal Instrument etc". published in 1660. This illustration appears on the back cover of this volume of the JOS

Keywords: Oughtred W., Circles of Proportion and the Horizontal Instrument etc.

## Vol. 5, No. 2, Fall 1996

jos-index-v5-n2-1996-item1-page37.txt

Title: Editorials and News

Author: Editor

Summary: Introduction to the Issue

Keywords: Lawrence slide rule

jos-index-v5-n2-1996-item2-page37.txt

Title: The June Meeting in Oakland

Author: Shepherd, Rodger

Summary: Overview of the sixth Annual Meeting of the Oughtred Society

Keywords: Annual Meeting of the Oughtred Society

jos-index-v5-n2-1996-item3-page37.txt

Title: Second International Meeting

Author: Hopp, Peter

Summary: Overview of the Second International Meeting, August 16-18 1996, Cambridge, England

Keywords: Second International Meeting, yellow book

jos-index-v5-n2-1996-item4-page39.txt

Title: Scheduled Meetings and Shows

Author: Editor

Summary: Listing of meetings and shows for 1997

Keywords:

jos-index-v5-n2-1996-item5-page40.txt

Title: The Dietzgen Company

Author: Aldinger, Henry

Summary: Article examines the history of the Eugene Dietzgen Company and their slide rules.

Keywords: Dietzgen E., Dietzgen Company, Engineer's slide rule,

jos-index-v5-n2-1996-item6-page42.txt

Title: Some Distinctive Features of Dietzgen Slide Rules

Author: Shepherd, Rodger

Summary: Article describes some of the distinctive and innovative features found with Dietzgen slide rules.

Keywords: Dietzgen, Mack Improved slide rule, Dietzgen Mannheim, self adjusting stator, Dietzgen Model 1762, Micromatic Duplex, Microglide Duplex,

jos-index-v5-n2-1996-item7-page45.txt

Title: Dietzgen Patents, Runners and Log-Log Scales

Author: Otnes, Robert K.

Summary: Article discusses patents listed on Dietzgen slide rules, some held by other companies. Photographs of selected Dietzgen slide rules are included

Keywords: Dietzgen patents, Dietzgen runners, K&E, Log-Log scales

jos-index-v5-n2-1996-item8-page49.txt

Title: Dietzgen Calculation Devices

Author: Otnes, Robert K.

Summary: In addition to slide rules, Dietzgen marketed a line of calculation devices (planimeters, integrators, elaborate slide rules and calculators, which are discussed.

Keywords: Dietzgen, Küttner's Rekening Machine, Burkhardt's Rekening Machine, Liebzig, Bunzel Rekening Machine

jos-index-v5-n2-1996-item9-page50.txt

Title: Concluding Remarks on Dietzgen Slide Rules

Author: Editor

Summary: Comparison of Dietzgen with the major companies operating in the US

Keywords: K&E, Dietzgen, Post, Pickett

jos-index-v5-n2-1996-item10-page51.txt

Title: The Pilot Balloon Slide Rule

Author: Feazel, Bobby

Summary: Excerpts taken from the book entitled *The Measurement of Upper Winds by Means of Pilot Balloons*, which involve use of a slide rule

Keywords: Pilot Balloon slide rule,

jos-index-v5-n2-1996-item11-page52.txt

Title: Solving the Keuffel & Esser Catalog Problem

Author: Garcelon, David C.

Summary: Article develops the relationship between the date and edition numbers of Keuffel & Esser General Catalogs to the actual number of General Catalogs that K&E issued. A table of K&E General Catalogues is included.

Keywords: Keuffel & Esser Catalog, K&E

jos-index-v5-n2-1996-item12-page54.txt

Title: Illustrations in the Centerfold

Author: Editors

Summary: An explanation of the nine illustrations that refer to other articles in this issue.

Keywords: Catalogue of Eugene Dietzgen Co., Rotarule, K&E model 4071T, Pilot Balloon slide rule, Thomas Dixon Engineer's rule, General Hannington slide rule, Lawrence Engineering slide rule,

jos-index-v5-n2-1996-item13-page55.txt

Title: Lawrence Engineering Service – A Tale from an American Small Town

Author: Babcock, Bruce

Summary: History of Lawrence Engineering Service and George Lee Lawrence

Keywords: Lawrence G. L., Lawrence slide rule, Lawrence engineering Service

jos-index-v5-n2-1996-item14-page62.txt

Title: Otis-King – Conclusions?

Author: Hopp, Peter

Summary: A comprehensive list of numbers of Otis King calculators produced.

Keywords: Otis King Calculators,

jos-index-v5-n2-1996-item15-page66.txt

Title: Slide Rule Hunting in Ireland

Author: Schuitema, Ijezebrand

Summary: Description of searching for slide rules in Ireland

Keywords: Thos. Robinson & Son, Ltd., flour calculator

jos-index-v5-n2-1996-item16-page66.txt

Title: Iwanamatic 1650 and the Vötsch-varient

Author: Schuitema, Ijezebrand

Summary: Discussion of the Iwanamatic slide rule

Keywords: Iwanamatic circular slide rule, Logomat,

jos-index-v5-n2-1996-item17-page68.txt

Title: The Thomas Dixon Engineer's Slide Rule

Author: Wyman, Tom

Summary: Outline of the use of the pre-cursor Thomas Dixon Engineers slide rule, with drawing.

Keywords: Dixon T., Dixon Engineer's slide rule, cursorless

jos-index-v5-n2-1996-item18-page69.txt

Title: A Visit to the Deutsches Museum

Author: Wyman, Tom

Summary: Report on a visit to the Deutsches Museum in Munich, Germany

Keywords: Faber A.W., A.W. Faber-Castell, Aristo-Werke, circular slide rules

jos-index-v5-n2-1996-item19-page69.txt

Title: Wollaston's Equivalents Slide Rule

Author: Schure, Conrad

Summary: A description of the actual use and operation of this historically important instrument.

Keywords: Wollaston's Equivalents Slide Rule,

jos-index-v5-n2-1996-item20-page70.txt

Title: Letter: Some questions about the history of specific slide rules

Author: Schwartz, Benjamin L.

Summary: A series of questions about specific slide rules

Keywords: Cal-Tape, Halden Calculex, Cajori

jos-index-v5-n2-1996-item21-page70.txt

Title: Letter: Some questions about collecting slide rules

Author: Mitton, Ken

Summary: A series of questions about specific slide rules

Keywords: Pickett N1010-T

jos-index-v5-n2-1996-item22-page70.txt

Title: Letter: Some questions about John L. Novotni, slide rule maker

Author: Bond, Evelyn Novotni

Summary: Author is the daughter of John L. Novotni and would like information about his slide rules

Keywords: Novotni J.L., Novotni Weight Slide Rule

jos-index-v5-n2-1996-item23-page71.txt

Title: The Internet

Author: Editors

Summary: Some interesting web sites for slide rule collectors

Keywords: Internet

jos-index-v5-n2-1996-item23-page71.txt

Title: Publications of Interest

Author: Lerner, Aaron B.

Summary: Author: reviews a number of books including *A Treatise on the Steam Engine* by J. Farey, *Calculus* by Luc de Brabandere, *Calculi – Images of Computing in Olden and Modern Times* by Bernard Korte and *Directions for Using Thacher's Calculating Instrument* by E. Thacher

Keywords: Farey J., Brabandere, d. L., Korte B., Thacher E.

jos-index-v5-n2-1996-item24-page72.txt

Title: Camera Technology

Author: Editor

Summary: Tips for photographing slide rules

Keywords: photographing slide rules

jos-index-v5-n2-1996-item25-page72.txt

Title: The Market Report

Author: Editor

Summary: Comments on the cost and availability of slide rules and calculators

Keywords: market for slide rules

## Vol. 6, No. 1, Spring 1997

jos-index-v6-n1-1997-item1-page2.txt

Title: The Oughtred Society

Author: Otnes, Bob

Summary: Comments on the status and management of the Oughtred Society

Keywords: Oughtred Society, numeracy, meetings

jos-index-v6-n1-1997-item2-page4.txt

Title: Dennert & Pape and Aristo Slide Rules 1872-1978

Author: Dennert, Hans

Summary: This article is intended to enable slide rule collectors to date their Dennert & Pape, D&P, DUPA and Aristo slide rules (with drawings)

Keywords: Dennert & Pape, D&P, DUPA, Aristo, System Darmstadt, trademarks,

jos-index-v6-n1-1997-item3-page15.txt

Title: T. S. Emblem Series – Oral Histories

Author: Barnes, Colin

Summary: Oral histories taken surrounding the Technical Sales (London) Ltd, which supplied slide rules under the T. S. Emblem name

Keywords: Emblem T.S., Unique

jos-index-v6-n1-1997-item4-page16.txt

Title: The Astronomical Scales of Oughtred's Calculator – A Detective Story

Author: Slater, Derek

Summary: Article outlines the possible uses of the “inner scales” of Oughtred's circular calculator to tell time by the stars.

Keywords: Oughtred, Whipple Museum

jos-index-v6-n1-1997-item5-page18.txt

Title: K&E Instrument Manuals

Author: Otnes, Robert K.

Summary: This article is a discussion of collecting K&E instruction manuals.

Keywords: K&E, instruction manuals, Cox W., Breckenridge W. E., Weinbach M. P., Kells L. M.,

jos-index-v6-n1-1997-item6-page20.txt

Title: Two Scarce K&E Rules

Author: Sauer, Robert J.

Summary: The article attempts to identify two early K&E slide rules.

Keywords: K&E 4066, extra slide,

jos-index-v6-n1-1997-item7-page22.txt

Title: A Circular Slide Rule in the Shape of a Ring

Author: Joss, Heinz

Summary: Article describes an unusual circular slide rule in the shape of a ring. Photo included.

keyword: circular slide rule, ring shaped

jos-index-v6-n1-1997-item8-page23.txt

Title: Some Specialty Slide Rules

Author: Schwartz, Benjamin L.

Summary: This article describes several special-purpose slide rules in the Author's collection (drawings included).

Keywords: Lawrence Printer's Proportional Rule, Weems aerial navigation computer, Spirule root-locus calculator, Taylor relative humidity measurement scale,

jos-index-v6-n1-1997-item9-page25.txt

Title: A K&E Slide Rule for Planer Work

Author: Babcock, Bruce E.

Summary: Article describes planers, their history and the slide rules used to increase the efficiency of their use.

Keywords: Frederick Taylor slide rule, Barth's slide rule, Gisholt Time Computer, Richardson G.W., Cincinnati Planer slide rule, slide rule for planer work,

jos-index-v6-n1-1997-item10-page27.txt

Title: The Voith Slide Rule and Mechanical Pencil Combination

Author: Chamberlain, Edwin J.

Summary: Article describes the operation of this unusual mechanical pencil –slide rule. (Photos included).

Keywords: Voith slide rule, Schauer slide rule

jos-index-v6-n1-1997-item11-page29.txt

Title: British Thornton – A Slide Rule Manufacturer of Manchester England

Author: Knott, John V.

Summary: A history of British Thornton slide rule is outlined

Keywords: Thornton A.G., British Thornton, Manchester, Calculex

jos-index-v6-n1-1997-item12-page30.txt

Title: The British Thornton Slide Rule

Author: Knott, John V.

Summary: Article describes the development of logos for the company. It also describes the manufacture of British Thornton slide rules and the entry of BT into teaching projects... A photograph is included.

Keywords: British Thornton slide rule, Precision Instrument Company, P.I.C.,

jos-index-v6-n1-1997-item13-page32.txt

Title: Unique Slide Rules

Author: Hopp, Peter; Barnes, Colin; Knott, John

Summary: Article describes the history of the Unique Slide Rule company of Brighton, England. It also describes the patterns of slide rules related to their date of manufacture. Cross section drawings of Unique slide rules are included, along with three tables of characteristics.

Keywords: Unique Slide Rule Ltd., Snodgrass B., Jiffy slide rule Unique 5/10, dualistic

jos-index-v6-n1-1997-item14-page45.txt

Title: A Five-Piece Combination Gauging Rod and Slide Rule

Author: Wyman, Thomas

Summary: Article describes an unusual gauging tool, with photographs included

Keywords: Gauging tool, Knight R., Branan's Rule,

jos-index-v6-n1-1997-item15-page47.txt

Title: Slide Rule Watches

Author: Schure, Conrad

Summary: Article describes a number of slide rule watches, with photos included

Keywords: Breitling, Heuer, Mondia, Sieko, Selectron, Citizen WR100, Globa

jos-index-v6-n1-1997-item16-page48.txt

Title: Slide Rule Photography

Author: McCully, H. M.

Summary: The article provides the basic information needed to successfully take photographs of slide rules.

Keywords: photographing slide rules,

jos-index-v6-n1-1997-item17-page49.txt

Title: Letter: Dietzgen issue

Author: Kujovich, Larry

Summary: Note from current president and CEO of Dietzgen Corporation

Keywords: Dietzgen Corp.

jos-index-v6-n1-1997-item18-page49.txt

Title: Letter: Lawrence Slide Rules

Author: Hopp, Peter M.; Barnes, Colin; Green, David

Summary: Letters received by the Author: on the popularity of Lawrence Slide Rules overseas

Keywords: Lawrence slide rules,

jos-index-v6-n1-1997-item19-page51.txt

Title: Letter: Binding issues of JOS

Author: Baron, Raymond

Summary: Suggestion for binding JOS

Keywords: Journal of the Oughtred Society

jos-index-v6-n1-1997-item20-page51.txt

Title: Book Reviews

Author: Editor

Summary: Books reviewed include *The Complete Collector's Guide to Pocket Calculators* by Ball, Guy and Bruce Flamm and *Exceptional Scientific and Engineering Works of Art* by Christie's South Kensington

Keywords: Ball G., Flamm B., Christie

## Vol. 6, No. 2, Fall 1997

jos-index-v6-n2-1997-item1-page2.txt

Title: The Oughtred Society

Author: Otnes, Bob

Summary: Comments on the status and membership of the Oughtred Society

Keywords: Oughtred Society

jos-index-v6-n2-1997-item2-page2.txt

Title: June and September Meetings

Author: Chamberlain, Ed; Wyman, Thomas

Summary: Comments on the 7<sup>th</sup> Annual Meeting of the Oughtred Society, June 28<sup>th</sup> 1997 held in Palo Alto and the 3<sup>rd</sup> International Meeting of Slide Rule Collectors, September 12<sup>th</sup>, 1997, held in Stein/Nurenberg, Germany

Keywords: Oughtred Society Meetings, International Meeting of Slide Rule Collectors

jos-index-v6-n2-1997-item3-page4.txt

Title: Further Notes on the Operation of Gunter's Rules

Author: von Jezierski, Dieter

Summary: Discussion of the book "*Die Gunterscale by Ludwig Jerdmann, 1888*" and its use in navigation. Illustrations included.

Keywords: Gunter's rules, Jerdmann L.,

jos-index-v6-n2-1997-item4-page9.txt

Title: Electrical Wireman's Combined Gage and Calculator

Author: Feazel, Bobby

Summary: Describes a rule made by Herbert Lutz that combines a wire gage and a slide rule for calculation. Photos included

Keywords: combined wire gage and calculator, Herbert Lutz slide rule,

jos-index-v6-n2-1997-item5-page11.txt

Title: The RHS Calculator

Author: Weinstock, Daniel

Summary: Description of a rare cylindrical slide rule, produced by R. H. Smith that looks like a miniature version of a Fuller. Photos are included

Keywords: RHS calculator, cylindrical slide rule, cylindric logarithmic scale, Fuller, Smith R. H.

jos-index-v6-n2-1997-item6-page13.txt

Title: William Cox on the Sector

Author: Stanley, Philip

Summary: Description of the role William Cox played in producing "The Compass", a monthly journal produced by K&E from 1891 to 1894, and an article on sectors that he wrote.

Keywords: The Compass, Cox W., Gunter E., English sector, Keuffel & Esser

jos-index-v6-n2-1997-item7-page14.txt

Title: The Sector

Author: Cox, William

Summary: This is an article of sectors published by William Cox in "*The Compass*", a K&E publication, in the 1890s. In it he describes how sectors are used.

Keywords: Cox W., Gunter E., sector, K&E

jos-index-v6-n2-1997-item8-page19.txt

Title: Elmer A. Sperry and His Calculator

Author: Otnes, Bob

Summary: This article discusses Sperry and Sperry-like pocket calculators and how they operate. Drawings and photos included

Keywords: Sperry E. A., pocket calculators, Boucher calculator, K&E Model IVa, Lange G., Dennert & Pape

jos-index-v6-n2-1997-item9-page23.txt

Title: The Soho Rule

Author: Wess, Jane

Summary: Discussion of the Soho rule, the first use of a slide rule for the construction of steam engines

Keywords: Soho sliding rule, Watt J., Farley J., Routledge, Bevan, Boulton M., Boulton and Watt Manufactory, Cajori F., Donkin's slide rule, Donkin B.,

jos-index-v6-n2-1997-item10-page27.txt

Title: Measuring the Volume of Logs: The Timber Contenting Slide Rule

Author: Bready, James; Babcock, Bruce

Summary: Describes some of the slide rules made to specifically determine the volume of wood in logs and how they were used.

Keywords: Timber contenting rule, Aston T., Coggeshall, Dring & Fage rule, Dollond, Hawney

jos-index-v6-n2-1997-item11-page32.txt

Title: U.S. Army Air Corps Aerial Dead Reckoning type E-6B

Author: Sanik, Paul

Summary: Article describes the background and use of the aerial dead reckoning computer used from the mid 1930s to the present. The use of the instrument is also discussed.

Keywords: Aerial Dead Reckoning Computer, K&E, Dalton P., Weems, Jeppesen, Sanderson Films, E-6B, circular slide rule

jos-index-v6-n2-1997-item12-page35.txt

Title: Dating Otis-King Slide Rules

Author: Barnes, Colin

Summary: Another example of dating the Otis King cylindrical slide rules. Table included

Keywords: Otis King, serial number prefix

jos-index-v6-n2-1997-item13-page37.txt

Title: Fuller's Telegraph Computer

Author: Barnes, Colin

Summary: Poem taken from one of three Palmer-Fuller rules in the Whipple Museum of the History of Science at Cambridge

Keywords: Poem, Palmer-Fuller, Whipple Museum

jos-index-v6-n2-1997-item14-page39.txt

Title: The Roylance Electrical Slide Rule

Author: Feazel, Bobby

Summary: Discussion of K&E No. 4133 Roylance Electrical Slide Rule and its use

Keywords: K&E No. 4133, Roylance Electrical Slide Rule

jos-index-v6-n2-1997-item15-page40.txt

Title: Joseph Halden & Co.- A Slide Rule Manufacturer of Manchester, England

Author: Knott, John V.

Summary: History of Joseph Halden's life and the Calcuex, his circular slide rules

Keywords: Halden J., Calcuex, circular slide rule, Thornton A. G., J. Halden's & Co Ltd.,

jos-index-v6-n2-1997-item16-page42.txt

Title: Did the Great War Leave Its Mark on Slide Rules?

Author: Rodger Shepherd

Summary: How World War I affected slide rule sales in England

Keywords: World War I, Mannheim

jos-index-v6-n2-1997-item17-page42.txt

Title: Rotating Mechanism for Classroom Instructional Slide Rules

Author: Wyman, Tom

Summary: Description of a rotation device created by K&E that allowed the 6 to 8 foot classroom slide rules to be rotated in demonstrations of their use. Photograph included

Keywords: K&E rotator

jos-index-v6-n2-1997-item18-page43.txt

Title: The Richardson-Gilson Connection

Author: Schure, Conrad

Summary: Explores the connection between George Washington Richardson and the Gilson Slide Rule Company

Keywords: Richardson G. W., Gilson Slide Rule Company. The Slide Rule Simplified

jos-index-v6-n2-1997-item19-page44.txt

Title: The System Wern Slide Rule

Author: Schure, Conrad

Summary: Explores the invention of the System Wern slide rule which solves the problem of decimal point placement.

Keywords: System Wern slide rule, Wern calculator

jos-index-v6-n2-1997-item20-page4.txt

Title: Book Reviews

Author: Fischer, Joachim

Summary: Review of a book in German, *Rechenschieber- eine Dokumentation* ( Title: translated as *Slide Rules: A Documentation*) by Dieter von Jezierski, *John Davis & Sons (Derby) Ltd., A Chronology of Slide Rule Production*, by Colin Barnes and *Scientific Instrument Making in Manchester 1870-1940* by Jenny Wetton

Keywords: Cajori, Jezierski D. v., Wetton J., Barnes C.

jos-index-v6-n2-1997-item21-page47.txt

Title: The American Scientific Instrument Market

Author: Giordano, Raymond V.

Summary: A Summary: of the activities of thirty dealers across the United States who responded to a written survey

Keywords: West Sea Company, The Gemmary, The Rational Past, Scientique, Lynn Harding, Packrat Antiques, Skip Solberg, Perceptions, Antique Scientifica, Vol 7. No.1, Spring 1998

jos-index-v6-n2-1997-item22-page50.txt

Title: Letters: K&E Slide Rules

Author: Schure, Conrad

Summary: Comments on the extensive matrix of all K&E slide rules in an article by Wayne Feely (Chronicles of the Early American Industries Association, V 49 No. 2)

Keywords: K&E Slide rules

jos-index-v6-n2-1997-item23-page50.txt

Title: Market Report

Author: Otnes, Bob

Summary: Results of three auctions handling scientific instruments

Keywords: Napier's Bones, Becker Auction, Skinner Auction, Christie's Auction

## Vol. 7, No. 1, Spring 1998

jos-index-v7-n1-1998-item1-page2.txt

Title: The Oughtred Society

Author: Otnes, Bob

Summary: Comments on the status of membership of and gifts to the Oughtred Society

Keywords: Oughtred Society

jos-index-v7-n1-1998-item2-page2.txt

Title: Meetings

Author: Catt, Cyril

Summary: Overview of the first meeting of the Australian slide rule enthusiasts held in Sydney, February 7, 1998

Keywords: Australian slide rule enthusiasts

jos-index-v7-n1-1998-item3-page3.txt

Title: Meetings

Author: Wyman, Tom

Summary: Comments on a meeting of the Portland OR slide rule collectors held in Portland on February 21, 1998. Also outline of the meetings of the Oughtred Society to be held in Palo Alto June 27<sup>th</sup> and Edison NJ on October 3<sup>rd</sup> 1998. The 4<sup>th</sup> International Meeting of Slide Rule Collectors will be held in Huttwil, Switzerland October 14-16, 1998

Keywords: 1998 Meetings planned

os-index-v7-n1-1998-item4-page4.txt

Title: The Dempster RotoRule

Author: Shepherd, Rodger

Summary: Details on this slide rule provided by twelve current collectors. Photos included

Keywords: Dempster RotoRule Model AA, Dempster J. R., Vynillite, Roto Rule, Pickett Model 110

jos-index-v7-n1-1998-item5-page7.txt

Title: Notes on Frederick Post Slide Rules

Author: Otnes, Bob

Summary: What is presently known to the author about Frederick Post Slide Rules? Photos included.

Keywords: Frederick Post Slide Rule, Dieterich-Post, DIEPO, Faber A.W., Dennert & Pape, Boucher Calculator, Sexton's Omnimeter, Halden Calculex, Ritow slide rule, Hemmi slide rule, Ross Middlemiss,

jos-index-v7-n1-1998-item6-page11.txt

Title: Napier and the Computation of Logarithms

Author: Fischer, Joachim

Summary: Napier's work on logarithms, namely on the numerical treatment of their constituents. All Napierian ideas, theorems, and proofs are presented here in modern terminology.

Keywords: Napier, Logarithms,

jos-index-v7-n1-1998-item7-page17.txt

Title: Blundell-Blundell Harling- W.H. Harling Slide Rules; A Brief History of Blundell Harling Limited

Author: Soole, Peter

Summary: Discussion of the history of W.H. Blundell slide rules, photos included.

Keywords: W.H. Harling slide rules, Blundell Harling slide rules, Bakelite slide rules, PVC slide rules, GEON, Astralon, Darvic PVC, Janus Dual-faced slide rules, Classmate 812, Academy Duplex 905, Reitz,  $\Omega$  Reitz, Super Duplex, Academy 302 Log/Log Blundell-Harling Classmate 812, Blundell-Harling Academy Duplex 905, Blundell-Harling Reitz, Blundell-Harling Super Duplex 809, Blundell-Harling Academy 302 LOG/LOG

jos-index-v7-n1-1998-item8-page23.txt

Title: The Mechanical Engineer

Author: De Cesaris, Bob

Summary: Discussion of the "Mechanical Engineer", a pocket calculator, and its operation, with reproduced advertisement.

Keywords: Mechanical Engineer, Fowler Company, Fowler "Twelve-Ten",

jos-index-v7-n1-1998-item9-page25.txt

Title: Some Facts and Impressions on Chinese Slide Rules

Author: Meulen, Pierre Vander

Summary: Some observations on Chinese Slide Rules, with photographs.

Keywords: Chinese slide rules, Flying-Fish 101, 102, 1003, Pickett N4-ES scales, Aristo,

jos-index-v7-n1-1998-item10-page30.txt

Title: Slide Rules of the Stanley Rule & Level Company

Author: Wyman, Tom

Summary: The purpose of the paper is to draw the attention of readers to slide rules that were available through American Manufacturers. Information on the measuring and slide rules was produced by Stanley Rule & Level Company.

Keywords: Stanley Rule & Level Company, Routledge-type slide rule, Hogg J., Coggeshall's hinged rule, Hogg slide rule,

jos-index-v7-n1-1998-item11-page33.txt

Title: Dating the Otis King: An Alternative Theory Developed Through Use of the Internet

Author: Lyon, Richard F.

Summary: Discussion of the relationship of serial numbers and their accompanying letters to dates of manufacture. A chart accompanies the article

Keywords: Otis King Patent Calculator, dating Otis King

jos-index-v7-n1-1998-item12-page38.txt

Title: Slide Rule Decimal Point Location Methods

Author: Chamberlain, Edwin

Summary: Paper surveys various methods proposed and used to fix the location of the decimal point in slide rule calculations.

Keywords: Decimal point location, Post Versatrig slide rule manual, Cox characteristic or digit count method, Pickworth digit count method, Richardson places method, Slater decimal point shift method, Stanley characteristic method, Clason 10s count and place count method, Charles Hoare scales, Kamm decimal-keeping scales, Faber registering cursor, Keuffel & Esser decimal pointer indicator, Hemmi digit registering cursor, Moore decimalizer, Schaeffer G. D., Cherney M., Eckel A. F., Smidl J., Christen C., Latshaw C. E., Morse G., Gilmore H., Dickson C.

jos-index-v7-n1-1998-item13-page53.txt

Title: Analysis of a Gilson Circular Rule

Author: Grable, Ross

Summary: Discussion of the Gilson circular slide rule, with photographs

Keywords: Gilson circular slide rule,

jos-index-v7-n1-1998-item14-page56.txt

Title: A Golden Age 4071T by Keuffer & Esser

Author: Otnes, Bob

Summary: Discussion of the K&E Model 4071T and the period that produced it.

Keywords: Cox W., K&E Model 4071T

jos-index-v7-n1-1998-item15-page57.txt

Title: Letters: Comments on rarity

Author: Schure, Conrad

Summary: Comments on an article by Wayne Feely on K&E slide rules

Keywords: Feely W., slide rule rarity, K&E,

jos-index-v7-n1-1998-item16-page58.txt

Title: Letters: E.A. Bräuer's logarithmic dividers

Author: Joss, Heinz

Summary: Comments on an instrument that can be used to add logarithms but is not a slide rule.

Keywords: E.A. Bräuer's logarithmic dividers

jos-index-v7-n1-1998-item17-page58.txt

Title: Letters: Search for the Existence of an Analog Calculating Instrument

Author: van Asbeck, Erwin

Summary: Search for an instrument or nomogram to calculate all the angles involved in a nonregular spherical triangle

Keywords: Analog calculating instrument

## Vol. 7, No. 2, Fall 1998

jos-index-v7-n2-1998-item1-page2.txt

Title: The Oughtred Society and the Fall Issue

Author: Otnes, Bob

Summary: Comments on the Journal of the Oughtred Society

Keywords: JOS

jos-index-v7-n2-1998-item2-page2.txt

Title: Meetings: Report on the June Meeting in Palo Alto

Author: Shepherd, Rodger

Summary: Report on the 8<sup>th</sup> Annual meeting of the Oughtred Society, held June 27<sup>th</sup> 1998 in Palo Alto

Keywords: Oughtred Society Annual Meeting

jos-index-v7-n2-1998-item3-page2.txt

Title: Meetings: Report on the October Meeting in Huttwil

Author: Wyman, Tom

Summary: Report on the 4<sup>th</sup> International Meeting of Slide Rule Collectors on October 14-16, Huttwil, Switzerland

Keywords: 4<sup>th</sup> International Meeting of Slide Rule Collectors.

jos-index-v7-n2-1998-item4-page4.txt

Title: Oughtred on Gauging – 1633 AD

Author: Editor

Summary: Notes on Oughtred and his publication on gauging

Keywords: Oughtred, gauging

jos-index-v7-n2-1998-item5-page5.txt

Title: The New Artificial Gauging Line or Rod - Excerpts

Author: Oughtred, William

Summary: Excerpts on an article published by William Oughtred in 1633 on gauging or measuring the contents of a barrel using his inventions

Keywords: Oughtred W., gauging

jos-index-v7-n2-1998-item6-page9.txt

Title: Two Early Slide Rules

Author: Rees, Mark

Summary: This article describes two early slide rules made only 13 years apart and draws parallels and distinctions between them. Illustrations accompany article

Keywords: Gauger's slide rule, Rowley J., Carver I., Everard T., Cook T., Allen E.,

jos-index-v7-n2-1998-item7-page12.txt

Title: Review: *Paul Zoller on the Soho Rule (Engineer's rule)*

Author: Otnes, Bob

Summary: Review of an article on the Soho slide rule from the Bulletin of the Scientific Instrument Society

Keywords: Zoller P., Soho rule, engineer's rule

jos-index-v7-n2-1998-item8-page13.txt

Title: Some Notes on Rules from the Former Soviet Union

Author: Barnes, Colin

Summary: A discussion of Soviet slide rules, both straight and circular, and the meaning of the maker's marks.

Keywords: Soviet Union, straight slide rules, circular slide rules, slide rule logos

jos-index-v7-n2-1998-item9-page17.txt

Title: Review 1998 Membership Survey of Pocket Watch Type Rules

Author: Hopp, Peter

Summary: A survey of the number and 15 types of pocket watch calculators held by members in 1998

Keywords: Halden's Calculex, Fowler, Boucher, Carpentier, Mascot, Small, Sperry, Molter

jos-index-v7-n2-1998-item10-page18.txt

Title: An Interview with Jack Burton and Gordon Anthony: The End of the Slide Rule Era at Keuffel & Esser – Part 1

Author: Otnes, Bob

Summary: A 1992 interview with Jack Burton, VP of Marketing for K&E and Gordon Anthony, manager of the San Francisco branch of K&E

Keywords: K&E, Jack Burton, Gordon Anthony,

jos-index-v7-n2-1998-item11-page18.txt

Title: Slide Rules by Molter

Author: Von Jezierski, Dieter

Summary: Molter was the maker of instruments previously attributed to Schact & Westrich

Keywords: Schact & Westrich, Halden Calculex

jos-index-v7-n2-1998-item12-page25.txt

Title: Lalanne's Glass Slide Rule and an Associated Instruction Book

Author: Sauer, Robert J.

Summary: A discussion of Lalanne's glass slide rule, invented by Léon Lalanne in 1851, with illustrations attached.

Keywords: Lalanne L., glass slide rule, Elliott and Sons,

jos-index-v7-n2-1998-item13-page31.txt

Title: American Slide Rule Instruction Books Before 1890

Author: Otnes, Bob

Summary: A discussion of the types of slide rule instruction books available in the US before 1900

Keywords: Coggeshall rules, Gunter rules, Mannheim slide rule, Routledge Engineer's rules Soho engineers rules, sliding Gunters, gauging or spirit rules, Belcher, Knapen, Riddel, Sylvester.

jos-index-v7-n2-1998-item14-page34.txt

Title: The W.H. Harling, Ltd. Company

Author: Otnes, Bob

Summary: A discussion of the W. H. Harling Ltd., a small slide rule company and the types of slide rules that they produced, with illustrations.

Keywords: W. H. Harling Ltd.,

jos-index-v7-n2-1998-item15-page35.txt

Title: A Brief History of the W. H. Harling, Ltd. Company

Author: Stevens, Peter

Summary: Overview of the history of the W. H. Harling Company.

Keywords: W. H. Harling Ltd., Blundell Rules, Ltd., A. G. Thornton, W. F. Stanley

jos-index-v7-n2-1998-item16-page36.txt

Title: Crafting Scale Rules by Hand – An Historical Note

Author: Goodson, David

Summary: A detailed description of the production methods employed for engraving scale rules by hand, with accompanying photos.

Keywords: W. H. Harling Company, Blundell Rules, dividing engine, Goodson A. D., Stevens P., Soole P.

jos-index-v7-n2-1998-item17-page42.txt

Title: Common Graduation and Early U. S. Slide Rules

Author: Aldinger, Henry

Summary: Discussion of common graduation, the practice of copying an original rule, quadrant or protractor...

Keywords: Belcher Brothers, Stanley Rule & Level Co., J & J.H. Walker, H. Chapin, L.C. Stephens & Co., Willis Thrall

jos-index-v7-n2-1998-item18-page43.txt

Title: Fowler's Pocket-Watch Type Calculators

Author: Hopp, Peter M.

Summary: Discussion of pocket watch calculators made by Fowler. A summary of models accompanies the article.

Keywords: Fowler artillery calculator, circular slide rule, universal calculator, "12-10" calculator, Magnum calculator, Fowler circular slide rule/junior calculator

jos-index-v7-n2-1998-item19-page43.txt

Title: Short Topics: Reprints of the Paper by Joachim Fischer

Author: Otnes, Bob

Summary: Availability of a paper on how Napier computed his table of logarithms.

Keywords: Napier, logarithms,

jos-index-v7-n2-1998-item20-page50.txt

Title: Short Topics: The Logarithms of Joss Bürgi

Author: Otnes, Bob

Summary: Describes the work of Joss Bürgi, an independent discoverer of logarithms, and how he used the base number 1.0001 to develop them.

Keywords: Bürgi J., Waldvogel J.

jos-index-v7-n2-1998-item21-page52.txt

Title: Short Topics: A Tale of Three Slide Rules

Author: Soltis, Robert Alan

Summary: Describes how, over thirty years, he obtained three K&E Log Log Duplex Decitrig slide rules.

Keywords: K&E Log Log Duplex Decitrig slide rule

jos-index-v7-n2-1998-item22-page52.txt

Title: Letters: Looking for information on Règles Almanach slide rule

Author: Turner, A.J.

Summary: Author: requests any information on this French slide rule made between 1834-5

Keywords: Règles Almanach slide rule

jos-index-v7-n2-1998-item23-page53.txt

Title: An Introduction to Articles on Dutch Contributions to Slide Rule History in the 20<sup>th</sup> Century.

Author: Schuitema, IJzebrand

Summary: Describes the work of K. Kasper in designing a sewage slide rule. He managed to design a method of calculating sewage culverts based on slide rule scales. A description of the use of this rule

Keywords: Kasper K., Aristo, system Kasper,

jos-index-v7-n2-1998-item24-page5.txt

Title: An Introduction to Articles on Dutch Contributions to Slide Rule History in the 20<sup>th</sup> Century. No. 1 – K. Kasper and his Sewerage Rule

Author: Schuitema, IJzebrand

Summary: Describes the work of K. Kasper in designing a sewage slide rule. He managed to design a method of calculating sewage culverts based on slide rule scales. A description of the use of this rule

Keywords: Kasper K., Aristo, system Kasper, Kasper slide rule

jos-index-v7-n2-1998-item25-page57.txt

Title: The Slide Rule in College

Author: Wyman, Tom

Summary: Discovery of humor about in back issues of pre-1975 Stanford University humor magazines, with cartoons.

Keywords: Humor, cartoons, Stanford.

jos-index-v7-n2-1998-item26-page58.txt

Title: The Marketplace

Author: Blankenhorn, Rick

Summary: This article provides a Summary: of the general level of activity in the major marketplaces.

Keywords: eBay, Oughtred Society, Scientific instrument shows, Christie's auction, Sotheby's auction, David Stanley auctions, Portobello Road Dealers, Newark shows, Ardingly shows

jos-index-v7-n2-1998-item27-page60.txt

Title: European Organization of Slide Rule Collectors

Author: Schuitema, IJzebrand

Summary: A report on the attempts to organize the European slide rule collectors

Keywords: European organization of slide rule collectors

jos-index-v7-n2-1998-item28-page63.txt

Title: A Note to Author's

Author: Otnes, Bob

Summary: Comments on style and text transmission format for articles submitted to the Journal of the Oughtred Society

Keywords: Journal of the Oughtred Society, Author's

## Vol. 8, No. 1, Spring 1999

jos-index-v8-n1-1999-item1-page2.txt

Title: The Spring Issue

Author: Otnes, Bob

Summary: Outline of JOS articles, meetings in 1999 and 2000

Keywords: Oughtred Society Meetings 1999, 2000

jos-index-v8-n1-1999-item2-page3.txt

Title: The Molter Slide Rule

Author: Shepherd, Rodger and von Jezierski, Dieter

Summary: Detailed description of the Molter slide rule, a “relatively rare” watch pocket slide rule, with photos

Keywords: Molter W., Molter slide rule, circular, watch pocket,

jos-index-v8-n1-1999-item3-page5.txt

Title: Is “Gauging” an Archaic Practice?

Author: Sauer, Robert J.

Summary: The article confirms that, based on items for sale in scientific instrument catalogs, the practice of “gauging” continued well into the 20<sup>th</sup> century. Drawing accompany article

Keywords: Stanley Rule and Level Co., Dring and Fage, Prime and McKean, Brombacher, Tagliabue G., gauging

jos-index-v8-n1-1999-item4-page8.txt

Title: More on the Capacity of Barrels

Author: Shepherd, Rodger

Summary: The article describes an unusual tape measure designed to estimate the capacity of barrels of casks based on the circumference at the widest point. Photos accompany article

Keywords: barrel capacity tape measure,

jos-index-v8-n1-1999-item5-page10.txt

Title: The French Lalanne Glass Slide Rule

Author: Schure, Conrad

Summary: Description of two additional French Lalanne Glass slide rules discovered by Author:

Keywords: French Lalanne Glass slide rule, Elliott W.

jos-index-v8-n1-1999-item6-page11.txt

Title: Pickett & Eckel Slide Rule Timeline

Author: Reichelt, Bruce

Summary: A timeline for the Pickett and Eckel Slide Rule Company

Keywords: Pickett & Eckel, Pickett R., magnesium slide rule, Deci-Point, aluminum slide rule, Eckel A.,

jos-index-v8-n1-1999-item7-page12.txt

Title: Letters: A Strange Fellow Collector

Author: Joss, Heinz; von Jezierski, Dieter; Schiller, Hans

Summary: Availability of official and legal versions certain German publications from the Authors

Keywords: Official German publications

jos-index-v8-n1-1999-item8-page12.txt

Title: Letters: An Early Example of a W. H. Harling Rule

Author: Barnes, Colin

Summary: Description of a Harling rule in Author's collection

Keywords: Harling W. H., W.H. Harding Rule

jos-index-v8-n1-1999-item9-page12.txt

Title: Letters: Comments on Richardson and Gilson Rules

Author: Aldinger, Henry

Summary: Comments on metal washer from a Gilson Midget slide rule

Keywords: Richardson, Gilson

os-index-v8-n1-1999-item10-page12.txt

Title: Letters: Derivation of Oughtred's Formula

Author: Miller, Robert C.

Summary: Comments on the formula used by Oughtred in his book "The New Artificial Gauging Line or Rod".

Keywords: Oughtred, New Artificial Gauging Line or Rod,

jos-index-v8-n1-1999-item11-page13.txt

Title: Letters: Another American Slide Rule Book

Author: Stahl, Fred

Summary: Calls attention to an 1824 publication entitled "*A Treatise on Gunter's Scale and the Sliding Rule*" by George Curtis.

Keywords: Curtis G., slide rule books

jos-index-v8-n1-1999-item12-page14.txt

Title: Reviews

Author: Otnes, Bob

Summary: Two books are reviewed; *Slide Rules-Their History, Models and Makers*, by Peter M. Hopp and *Trigonometric Delights*, by Eli Maor

Keywords: Hopp P. M., Maor E.

jos-index-v8-n1-1999-item11-page15.txt

Title: The Whythe Complex Slide Rule in Fuller Style

Author: Whythe, D. J.

Summary: The article describes the complex numbers slide rule designed by D. J. Whythe around 1960, with drawings.

Keywords: Whythe T. J., Fuller, W. F. Stanley & Co.

jos-index-v8-n1-1999-item12-page18.txt

Title: An Interview with Jack Burton and Gordon Anthony: End of the Slide Rule Era at Keuffel & Esser – Part II

Author: Otnes, Bob

Summary: Continuation of an interview with two former K&E employees and has their comments on the early history of making rules at K&E

Keywords: Burton J., Anthony G., K&E

jos-index-v8-n1-1999-item13-page23.txt

Title: How D&P and K&E Made Slide Rules

Author: Dennert, Hans

Summary: Photograph of pantograph and description of how it was used to cut the divisions on slide rules

Keywords: pantograph, K&E, D&P

jos-index-v8-n1-1999-item14-page24.txt

Title: Long-Scale Slide Rules

Author: Chamberlain, Edwin J.

Summary: The history of long-scale slide rules is described with definitions of terms used to describe them.

Keywords: long-scale slide rules, Oughtred W., Cajori F., Molburne, Brown, Horner, Ward J., Scott B., Facini B., Lambert J.H., Clairaut J.B., Nicholson W., Fuller J. F., Fuller-Palmer, Nystrom Calculator, Thacher E., Everett J.D., Manheim A., Fuller Spiral Calculaltor, Fuller G., Darwin G. H., Smith R. H., Paisley J. R., Artur J. F. , Seyffert O., Goulding cursor, Unique Pioneer Long Scale, Hemmi 201, Gridiron slide rules, Hannyngton Extended slide rule, Cherry slide rule, Proell's Pocket Calculator, Gilson Slide Rule Company, Richardson Direct Reading slide rule, Kolesch Co., Richardson & Clark, Gilson Pocket Slide Rule, Cooper slide rule, Lurie A.N, Wang Y., Charts and table slide rules, Goodchild Mathematical Chart, Triangular Rule , LaCroix and Ragot Graphic Table, MacMillan Table Slide Rule, Circular slide rules, Calculigraphe, Sexton's Omnimetre, Gilson Atlas, Ross Precision Computer, Appoullot spiral, Logomat spiral, Alro spiral, Otis King, R.H. Smith Calculator, Lafay A, Lafay Helice a Culcul, Nestler, Kooler Calculator, Giken M, Tape slide rule, Paisley Calculator, Thacher Calculating Instrument.

jos-index-v8-n1-1999-item15-page35.txt

Title: Faber-Castell Model Numbers

Author: von Jezierski, Dieter; Shepherd, Rodger

Summary: The purpose of this article is to provide an overview of the system that Faber Castell used for their slide rules (with chart)

Keywords: Faber-Castell model numbers, Faber

jos-index-v8-n1-1999-item16-page37.txt

Title: Adolph Keuffel and the Later K&E Slide Rules

Author: Otnes, Bob

Summary: A discussion of Adolph Keuffel and the US patents he was responsible for.

Keywords: Keuffel A., Keuffel C., K&E patents, K&E

jos-index-v8-n1-1999-item17-page39.txt

Title: Articles on Dutch Contributions to Slide Rule History in the 20<sup>th</sup> Century-No. 2 – F. J. Vaes

Author: Schuiterma, IJzebrand

Summary: Discussion of the contributions of Franciscus Johannes Vaes to slide rule history.

Drawings accompany article

Keywords: Vaes F J., Dutch,

jos-index-v8-n1-1999-item18-page43.txt

Title: The "Vade Mecum Slide Rule" designed Expressly for the Timber Trade by George Bousfield

Author: Rees, Jane

Summary: Discussion of the history of George Bousfield and the slide rule he designed for the timber industry, accompanied by drawings of his slide rule and a detailed description of the rule and its use.

Keywords: Vade Mecum Slide Rule, Bousfield G., Timber slide rules.

jos-index-v8-n1-1999-item19-page49.txt

Title: Direct Reading Frequency Response Slide Rule

Author: Otnes, Bob

Summary: Description of a very special-purpose calculating device for computing gain in dB (decibels) and phase in degrees as a function of frequency which may or may not be a "slide rule"

Keywords: Direct Reading Frequency Response Slide Rule, logarithmic slide rule

jos-index-v8-n1-1999-item20-page51.txt

Title: The Market Place

Author: Blankenhorn, Rick

Summary: Comments on buying and selling slide rules.

Keywords: eBay,

## Vol. 8, No. 2, Fall 1999

jos-index-v8-n2-1999-item1-page2.txt

Title: Oughtred Society Meetings

Author: Wyman, Tom

Summary: An overview of the 5<sup>th</sup> International Meeting of Slide Rule Collectors, Cambridge England August 20-21 1999 and outlines of meetings to be held in 2000

Keywords: International Meeting of Slide Rule Collectors, Oughtred Society

jos-index-v8-n2-1999-item2-page4.txt

Title: George Fuller and His Slide Rule

Author: Otnes, Bob

Summary: A brief overview of the life of George Fuller

Keywords: Fuller G., Thompson J., Fuller slide rule

jos-index-v8-n2-1999-item3-page5.txt

Title: Slide Rule Accuracy

Author: Catt, Cyril

Summary: Discussion on the accuracy of slide rules and the relevance of significant figures

Keywords: slide rule accuracy, significant figures

jos-index-v8-n2-1999-item4-page6.txt

Title: The Gunter Rule

Author: Otnes, Bob

Summary: Discussion of the Gunter Cross Staff (drawing on cover of issue) and the Gunter slide rule.

Keywords: Gunter Cross Staff, Gunter E., Gunter Rule, line of numbers, dividers, Oughtred W., Allen E.,

jos-index-v8-n2-1999-item5-page7.txt

Title: Robertson's Slide Rule with Runner - 1788

Author: Otnes, Bob

Summary: Describes the Robertson slide rule, one of the first to have a runner and how it is used.

Keywords: Robertson slide rule, Montaine W., Robertson J., Nairne E., sliding Gunters, Blunt T., Mannheim A., Soho, Lenoir, Zoller P.

jos-index-v8-n2-1999-item6-page11.txt

Title: The Slide Rule in France -1815 (Translation from French)

Author: Jomard, M.

Summary: Description of a calculating rule, used in England, and called a sliding rule: proceeded by some reflections on the state of English industry, in April, 1815.

Keywords: Edme-François. Jomard, Scheffelt rules, Gunter, Lambert, Lenoir, Jones W., Wollaston W. H., Artur J. F., Gravet-Lenoir,

jos-index-v8-n2-1999-item7-page17.txt

Title: The Pickett and Eckel Paper Slide Rule of 1943

Author: Mosby, Al

Summary: Discussion of paper slide rules made during WW II because of metal shortages.

Keywords: Pickett J., paper slide rules, Deci-Point "Demonstrator",

jos-index-v8-n2-1999-item8-page21.txt

Title: Articles on Dutch Contributions to Slide Rule History in the 20<sup>th</sup> Century: No. 3 – R.E.P Wolthekker and His Road Curvature Slide Rule

Author: Schuitema, IJzebrand

Summary: Discussion of a road curvature rule designed by R.E.P. Wolthekker

Keywords: Wolthekker R.E. P., road curvature slide rule, Dutch,

jos-index-v8-n2-1999-item9-page23.txt

Title: An unusual Russian Machinists' Rule

Author: Maack, Dennis

Summary: Discussion of an unusual Russian Machinists slide rule, with photos included.

Keywords: Russian, logarithmic rule, machinists rule,

jos-index-v8-n2-1999-item10-page27.txt

Title: An Interview with Jack Burton and Gordon Anthony: End of the Slide Rule Era at Keuffel and Esser – Part III

Author: Otnes, Bob

Summary: Discussion of aspects of manufacturing ant K&E.

Keywords: K&E, Burton J., Anthony G., end of slide rules, Hemmi, TI,

jos-index-v8-n2-1999-item11-page32.txt

Title: Triangular Metal Slide Rule

Author: Excerpt from the 1900 K&E Catalog

Summary: Photos and patent for triangular slide rule developed by W.L.E. Keuffel

Keywords: K&E, triangular metal slide rule, Keuffel W. L. E.

jos-index-v8-n2-1999-item12-page33.txt

Title: Slide Rules for Calculating Radiographic Exposure

Author: Burns, J.E

Summary: Article discusses slide rules specially designed to calculate some of the performance variables for new X-ray sets.

Keywords: X-ray, Röntgen, Wehnelt penentrameter, Schall & Son slide rule, Cavendish Electrical Co., Eastman Kodak slide rule, Friel-Sturdy slide rule, Ansco Slide rule, Philips Circular slide rule

jos-index-v8-n2-1999-item13-page40.txt

Title: An Interesting Fowler Textile Calculator

Author: Bready, James

Summary: Article discusses a small Fowler Calculator in need of repair

Keywords: Circular slide rule, Fowler Textile Calculator, Fowler H.

jos-index-v8-n2-1999-item14-page41.txt

Title: Cattle Gauge Slide Rules

Author: Schure, Conrad

Summary: Article discusses slide rules specially designed to estimate the usable yield from the carcass of certain animals on the hoof.

Keywords: Cattle Gauge slide rule, Ewart Rule, Ewart J., Chesterman circular slide rule

jos-index-v8-n2-1999-item15-page43.txt

Title: The Number e

Author: Maor, Eli

Summary: Article discusses the origin of the number e

Keywords: Newton, Leibniz, Napier, Descriptio, Bernoulli,

jos-index-v8-n2-1999-item16-page45.txt

Title: Pocket-Watch Slide Rules

Author: Hopp, Peter M.

Summary: Article defines terms of pocket-watch slide rules to differentiate between vest-pocket slide rules, pocket-watch calculators and pocket-watch slide rules and discusses their history, with photos and chart.

Keywords: Pocket-Watch slide rules, Laurence Lord's Calculator, A.E.M. Boucher Calculator, Vest Pocket slide rule, Small, Charpentier, Fowler Calculator, Sperry E.A., Fowler H., Halden J., Elliott Bros. Waddington, Stanley W.F., Steward J. F., Negretti & Zambra, Manlove, Alliot & Fryer, Schacht u. Westerich, Wichmann, Molters, Keuffel and Esser, Dietzgen E., Queen & Co., Henri Chatelain, Calculigraphe, M&P, Meyrat & Perdrizet, Cercle á Calcul, Lafond, Pedos, Calculex,

jos-index-v8-n2-1999-item17-page52.txt

Title: Bach and the Slide Rule

Author: Steinbaugh, Gary

Summary: Discussion of the use of slide rules in the development of organs

Keywords: Rensch R., Bach J. S., organs, pipe scaling slide rule

jos-index-v8-n2-1999-item18-page56.txt

Title: Slide Rule Competition in Texas High Schools

Author: Gabbert, Mike

Summary: Discussion of the slide rule competition in Texas high schools

Keywords: High school, slide rule competition,

jos-index-v8-n2-1999-item19-page59.txt

Title: An Article from the Past on Log-Log Slide Rules

Author: Pletts, J. St. Vincent

Summary: The reproduction of an article on slide rules published in 1921, followed by some comments by Bob Otnes clarifying some details

Keywords: Pletts J. S.V., Log-Log slide rule,

jos-index-v8-n2-1999-item20-page62.txt

Title: How to make Pictures of Slide Rules with a Digital Camera

Author: van Herwijnen, ir. H.

Summary: Describes ways to take good photographs of slide rules using a digital camera

Keywords: digital camera, Photoashop photographing slide rules,

jos-index-v8-n2-1999-item21-page63.txt

Title: More on the Molter Slide Rule

Author: Shepherd, Rodger; von Jezierski, Dieter

Summary: Reports on six specimens and four variants of the Molter slide rule, with a table included.

Keywords: Molter slide rule

jos-index-v8-n2-1999-item22-page64.txt

Title: Arithmographe par M. Gattey

Author: Editor

Summary: A drawing from 1816 of a circular slide rule may be the first such rule to have two disks, each with a logarithmic scale

Keywords: circular slide rule, M. Gattey, Arithmographe

## Vol. 9, No. 1, Spring 2000

jos-index-v9-n1-2000-item1-page2.txt

Title: Mid-America “Kring” Stages Another Successful Meeting

Author: Wyman, Tom

Summary: Report from the second annual Mid-America Slide Rule Collectors Meeting in Kansas City, MO April 22, 2000

Keywords: Mid-America Slide Rule Collectors Meeting,

jos-index-v9-n1-2000-item2-page2.txt

Title: Oughtred Society Activities

Author: Wyman, Tom

Summary: Location of Oughtred Society meetings in 2000; Search for volunteers for a calculation competition between one of more persons with slide rules.

Keywords: Oughtred Society Meetings

jos-index-v9-n1-2000-item3-page3.txt

Title: A.W. Faber Castell Slide Rules – The Relationship Between Date of Manufacture and Indication of Brand Name, Model Number, and Model Name

Author: Venetsianos, Panagiotis

Summary: A chronological list of the different types of brand (logos) and model indications on Faber and Faber-Castell slide rules

Keywords: Faber, Faber-Castell slide rules, logo

jos-index-v9-n1-2000-item4-page7.txt

Title: On Mandrels and Electroforms – The Making of Molded Slide Rules at the Keuffel & Esser Company

Author: Soper, Joseph

Summary: Describes the process used by K & E for making molded slide rules

Keywords: Keuffel & Esser Co., Mandrels, Electroforms

jos-index-v9-n1-2000-item5-page8.txt

Title: The Market Report

Author: Otnes, Bob

Summary: Discusses the David Stanley 35<sup>th</sup> International Tool Auction

Keywords: Stanley D.

jos-index-v9-n1-2000-item6-page8.txt

Title: What is it?

Author: Ford, Graham

Summary: Describes a small, cylindrical steel slide rule and requests suggestions about its use.

Keywords: Slide rule for grill

jos-index-v9-n1-2000-item7-page9.txt

Title: A Challenge to Oughtred Society Members

Author: Castleberry, Clay

Summary: A challenge to members to share their treasures with members of their communities.

Keywords: Oughtred Society, slide rule exhibits,

jos-index-v9-n1-2000-item8-page9.txt

Title: Slide Rules and Slide Rule Type Devices

Author: Murtagh, Donald F.

Summary: Describes some of the slide rules he has collected since he was issued an E-6B Computer during WWII

Keywords: E-6B Computer, Curta, Otis King, Stevens Rally Indicator Model No. 25

jos-index-v9-n1-2000-item9-page10.txt

Title: A Letter Regarding the Molter Slide Rule

Author: Joss, Heinz.

Summary: Response to an article in JOS, v 8, n1 on Molter slide rules.

Keywords: Molter slide rule

jos-index-v9-n1-2000-item10-page11.txt

Title: Operations Analysis and the 20<sup>th</sup> AF Slide Rules of WWII – August 1944 to September, 1945

Author: Green, Alex E.S...

Summary: Describes his work for the USAF in 1945. He designed and built a slide rule system with a universal frame but specially designed computing charts, used in various aspects of aerial bombing. Diagrams of the computing charts included.

Keywords: USAF, bombing slide rules, designing slide rules, military slide rules, Flight Engineer's Computer, Bomb Plot Computers, Force and Bomb Load Computers, LeMay C. E.

jos-index-v9-n1-2000-item11-page23.txt

Title: Two "Log Spiral" Devices

Author: Shepherd, Rodger

Summary: The K&E Logarithmic Spiral Curve and the Tyler Slide Rule are described, and the underlying concept common to both is explored.

Keywords: K&E Log Spiral Curve, Tyler slide rule, Cox W.

jos-index-v9-n1-2000-item12-page27.txt

Title: The Back-Light Screen Projection Slide Rule

Author: Francis, Jay

Summary: Describes two, Italian-made projection slide rules he discovered and describes their operation.

Keywords: Projection slide rule, Filotecnica Salmoiraghi,

jos-index-v9-n1-2000-item13-page31.txt

Title: Unique Use for Slide Rule as Advertisement

Author: Schure, Conrad

Summary: A photoengraved zinc slide rule produced to advertise a photoengraver.

Keywords: slide rule in advertising, Odhams Photo Engravers

jos-index-v9-n1-2000-item14-page31.txt

Title: The Robinson Calculator

Author: Schure, Conrad

Summary: Describes a Robinson watch-type calculator used in the textile industry.

Keywords: Robinson Calculator

jos-index-v9-n1-2000-item15-page32.txt

Title: Errors in Manufacturing of the Pickett C19 Collins Radio Microwave Slide Rule

Author: Francis, Jay

Summary: Errors in the Pickett C19 slide rule are described.

Keywords: Pickett C19 slide rule, Collins Radio, Rockwell International

jos-index-v9-n1-2000-item16-page33.txt

Title: Two Unusual Types of Trigonometric Scales

Author: Mosand, John

Summary: Describes two systems of trigonometric scales that differ significantly from the "standard".

Keywords: trigonometric scales, Australian W&G, British Thornton, K&E

jos-index-v9-n1-2000-item17-page35.txt

Title: Modeling Slide Rule Standard Deviation

Author: Otnes, Bob

Summary: Article is based on computer simulation to analyze the accuracy of multiplications performed using the C and D scales on a 25 CM rule

Keywords: slide rule accuracy, computer analysis,

jos-index-v9-n1-2000-item18-page38.txt

Title: A Qualitative Analysis on a Quantitative Device

Author: Freudiger, Shannon; Freudiger, Michael; Koppany, Robert

Summary: Describes the K&E Analon slide rule, a tool for dealing with physical quantities having both size and dimension

Keywords: K&E Analon slide rule,

jos-index-v9-n1-2000-item19-page41.txt

Title: Wages Calculating Machine –Made by John Davies & Son of All Saints Works, Derby

Author: Knott, John

Summary: Extract from "The Engineer", a 1905 publication, describing this calculator made by John Davies & Son, Derby, England

Keywords: Wages Calculating machine, John Davies and Son,

jos-index-v9-n1-2000-item20-page42.txt

Title: A Circular Slide Rule to Calculate Production Data for Safety Matches

Author: Joss, Heinz

Summary: Describes a circular slide rule designed to calculate the production rate in millions of matches per 10 hours, based on the number and diameter of the trunks on the one hand and the match size on the other.

Keywords: Oerlikon-Buhrle, circular slide rule, matchstick slide rule, Schnellmann O.,

jos-index-v9-n1-2000-item21-page44.txt

Title: Mystery Pocket-Watch Calculators

Author: Hopp, Peter M.

Summary: Describes patents for pocket-watch calculators, the majority of which seem never to have been made.

Keywords: Boucher, Newton H.E., Lefevre H., International currency watch, Halden's Calculex, Wilson E, Anderson F. J., Sperry E. A., Eastwood W., Brotherton H., Brotherton F., Robinson F., Dyson, Moko Lightning Calculator, Lafond Calculator, Calculigraphe, circular slide rules

jos-index-v9-n1-2000-item22-page48.txt

Title: Gilson Slide Rules – Part I – The Small Rules

Author: Aldinger, Henry; Chamberlain, Ed

Summary: Describes the various types of Gilson slide rules known and shows the evolution in Gilson slide rule design, with photographs.

Keywords: Gilson Slide Rule Co., Gilson Pocket slide rule, Gilson Midget slide rule- Type I Version I, Gilson Midget Slide Rule-Type I, Version II, Gilson Midget Slide Rule – Type II, , Gilson Midget Slide Rule – Type III Version I, , Gilson Midget Slide Rule – Type III – Version II, , Gilson Midget Slide Rule – Type IV – Version I, , Gilson Midget Slide Rule – Type IV – Version II, , Gilson Midget Slide Rule – Type V, Gilson Midget Slide Rule – Type VI – Version I, Gilson Midget Slide Rule – Type VI – Version II, Gilson Midget Slide Rule – Type VI – Version III, Gilson Commercial Calculator

jos-index-v9-n1-2000-item23-page61.txt

Title: Henry F Aldinger, Jr. – An Autobiography

Author: Aldinger, Henry

Summary: Gives a brief overview of his life and interests.

Keywords: Aldinger H.

## Vol. 9, No. 2, Fall 2000

jos-index-v9-n2-2000-item1-page1.txt

Title: Hans Dennert (1926-2000)

Author: Editor

Summary: Obituary for Hans Dennert, the last owner and manager of Dennert & Pape Aristo-Werk KG

Keywords: Dennert & Pape, Aristo, Dennert H.,

jos-index-v9-n2-2000-item2-page1.txt

Title: Sixth International Meeting a Resounding Success

Author: Wyman, Tom

Summary: Report on the 6<sup>th</sup> International Meeting of Slide Rule Collectors in Ede, The Netherlands.

Keywords: Dutch Circle of Slide Rule Collectors

jos-index-v9-n2-2000-item3-page2.txt

Title: Oughtred Society Meetings in 2001

Author: De Cesaris, Robert

Summary: Outline of Oughtred meetings in 2001

Keywords: Oughtred Society meetings

jos-index-v9-n2-2000-item4-page3.txt

Title: Binding Copies of the JOS

Author: Wyman, Thomas

Summary: Where and how to bind copies of the JOS

Keywords: Journal of the Oughtred Society, binding JOS issues,

jos-index-v9-n2-2000-item5-page3.txt

Title: Symposium in Greifswald in September 2000

Author: Shepherd, Rodger

Summary: Trip report on symposium on the development of computer technology

Keywords: Development of computer technology

jos-index-v9-n2-2000-item5-page4.txt

Title: And One Thing Led to Another...

Author: Shepherd, Rodger

Summary: The history of the beginning and evolution of the Oughtred Society

Keywords: Oughtred Society origin,

jos-index-v9-n2-2000-item6-page5.txt

Title: Market Report for the June Meeting

Author: Bready, James

Summary: Highlights of the slide rule auction held after the June meeting

Keywords: slide rule prices

jos-index-v9-n2-2000-item7-page5.txt

Title: The Oughtred Society Website

Author: Editor

Summary: The notice that the Oughtred Society website is up and running ([www.oughtred.org](http://www.oughtred.org))

Keywords: Oughtred Society website

jos-index-v9-n2-2000-item8-page6.txt

Title: The Beginning Collector

Author: van Herwijnen, Herman

Summary: Outline of how one should start to collect anything, including slide rules, and how to rank them

Keywords: slide rule collecting

jos-index-v9-n2-2000-item9-page7.txt

Title: A Poor Man's Guide to Searching for Slide Rules in England

Author: Tidy, Hugh

Summary: Discussion on the sources of slide rules in England

Keywords: slide rule sources, car boot sales, antique fairs, antique shops, and auctions

jos-index-v9-n2-2000-item10-page9.txt

Title: Slide Rules for Underwater Activities

Author: Schuitema, IJzebrand

Summary: Slide rules designed for calculating decompression time during diving and echo sounding.

Keywords: sport diving, circular slide rules, decompression, echo sounding.

jos-index-v9-n2-2000-item11-page13.txt

Title: Thousands of Rules and Millions of Bytes Later – The Slide Rule Universe and Other Internet Stories

Author: Shawlee, Walter

Summary: How the internet aids slide rule collecting.

Keywords: Slide Rule Universe, internet, eBay, Hemmi, Sphere Research, Wired magazine,

jos-index-v9-n2-2000-item12-page17.txt

Title: The Artillery Graphical Firing Table: A description of a specialized Slide Rule

Author: Santa-Pau, Federico Ramírez

Summary: Describes how artillery graphical firing tables are used

Keywords: Artillery graphical firing table, M43, military slide rules,

jos-index-v9-n2-2000-item13-page21.txt

Title: Ivory, Bone or Plastic

Author: Hopp, Peter

Summary: Describes how we can identify whether a slide rule is made from ivory, bone or plastic with reasonable certainty

Keywords: ivory, bone, UV determination, composition of slide rule, Bakelite,

jos-index-v9-n2-2000-item14-page23.txt

Title: Book Review: *A Journey Through Three Centuries*, by Dieter von Jezierski (Translated by Rodger Shepherd)

Author: Chamberlain, Rodger

Summary: Book delves deeply into the history of the slide rule, including construction details and manufacturers.

Keywords: history of slide rule, slide rule construction and manufacture, von Jezierski D.,

jos-index-v9-n2-2000-item15-page24.txt

Title: Book Review: *Calculating on Slide Rule and Disc - 2 X 3 ...approximately 6'' – Portrait of an era*, by IJ Schuitema and Herman van Herwijnen

Author: Editor

Summary: Book illustrates most slide rules. Discusses slide rule collecting in general and information on slide rule companies and individual designers.

Keywords: slide rule history, slide rule collecting, Schuitema IJ., van Herwijnen H.,

jos-index-v9-n2-2000-item16-page24.txt

Title: Book Review: *The Slide Rule Gazette, Inaugural Issue*

Author: Editor

Summary: Gazette runs 81 pages and consists of 13 articles and color plates of slide rules

Keywords: slide rule history, slide rule collecting, UK Slide Rule Circle, UKSRC

jos-index-v9-n2-2000-item17-page24.txt

Title: Book Review: *Office Collectibles* by Thomas Russo

Author: Editor

Summary: The subject matter covers a wide range of things found in the office, including calculation devices

Keywords: slide Calculation devices, calculators

jos-index-v9-n2-2000-item18-page25.txt

Title: Letters: Slide Rule Errors

Author: Miller, Robert C.

Summary: Comments on article by Bob Otnes (Vol 9, N. 1)

Keywords: slide rule errors, A.W. Faber 379

jos-index-v9-n2-2000-item19-page27.txt

Title: A Tablet Slide Rule by Julius Billeter, Zurich

Author: Joss, Heinz

Summary: Describes a tablet slide rule made in 1887 that is equivalent to 13 feet (4 meter) slide rule

Keywords: tablet slide rule, Billeter J.

jos-index-v9-n2-2000-item20-page28.txt

Title: The Sun Hemmi System of Trigonometric and Hyperbolic Scales

Author: Borchers, Brian; Cotter, Noël H.

Summary: Discusses a system of scales for trigonometric and hyperbolic functions which was used by Sun Hemmi in several of its slide rules

Keywords: slide rules, Sun Hemmi, Trigonometric, hyperbolic Hemmi 153

jos-index-v9-n2-2000-item21-page32.txt

Title: Taylor, Taylorism, and Machine-time Slide Rules

Author: von Jeziarski, Dieter; Shepherd, Rodger

Summary: Description of Machine-time slide rules, a special-purpose type of slide rule that played an important part in industrialization during the twentieth century. They were based on pioneering work of Frederick Taylor.

Keywords: Taylor F. W., Barth slide rule, Barth K. G, machine-time slide rule, Taylorism, Faber-Castell model 348, Dietzgen Industrial Slide Rule model 1751, system Winkle,

jos-index-v9-n2-2000-item22-page37.txt

Title: Slide Rules of the Frederick Post Company

Author: Ross, Paul; Hume, Ted

Summary: Discusses the source of slide rules sold by the Frederick Post Company and includes a table of Post slide rules.

Keywords: Hemmi Keisanjaku, Hemmi slide rules, Hughes-Owen Company, Geotec, Versalogs, Versatrigs, Hemmi date code, Post model numbers, Post 1452 Multiphase Mannheim slide rule, Post 1451 Pocket Versatrig, Post 1461 Pocket Versalog

jos-index-v9-n2-2000-item23-page47.txt

Title: Gilson Slide Rules – Part II – The Large Rules

Author: Aldinger, Henry; Chamberlain, Ed

Summary: Focuses on large diameter Gilson circular slide rules

Keywords: Gilson, Gilson Atlas Calculator, Gilson Apex slide rule, Gilson Binary slide rule, Commercial Calculator, Gilson R., circular slide rules, Gilson Atlas slide rule Type I, Version I, Gilson Atlas slide rule Type I, Version II, Gilson Atlas slide rule Type II, Gilson Atlas slide rule Type I, Version III

jos-index-v9-n2-2000-item24-page59.txt

Title: Thoughts on Japan, Deming, Quality and the Statistical Quality Control Slide Rule

Author: Craven, Bruce

Summary: A brief history of statistical quality control and its first use in Japan.

Keywords: Statistical quality control, SQC, Deming W. E., Japan, SQC slide rule, Picket Model 6, Picket Model 6T, Picket & Eckel

jos-index-v9-n2-2000-item25-page64.txt

Title: Relay/Ricoh Slide Rules

Author: Ross, Paul

Summary: Some “odd” Hemmi slide rules are described

Keywords: Hemmi/Relay, Ricoh, Bamboo,

## Vol. 10, No. 1, Spring 2001

jos-index-v10-n1-2001-item1-page1.txt

Title: Message from Tom Wyman, President

Author: Wyman, Tom

Summary: Contributions of Bob Otnes

Keywords: Otnes B.

jos-index-v10-n1-2001-item2-page1.txt

Title: New on the OS Website

Author: Matthews, Kate

Summary: Update on OS website

Keywords: Oughtred Society website

jos-index-v10-n1-2001-item3-page2.txt

Title: The Faber Slide Rule Manuals by Pickworth

Author: Shepherd, Rodger

Summary: Discussion of slide rule manuals written by C. N. Pickworth and the sequence in which the various manuals were published. A table of Faber slide rule manuals accompanies the article.

Keywords: Pickworth C N, Faber A. W., Faber-Castell, Cooper H. O., Faber slide rule manuals

jos-index-v10-n1-2001-item4-page13.txt

Title: Pickett from a Manufacturing Perspective

Author: O'Leary, Michael P.

Summary: Discussion of theories on how Pickett made their slide rules

Keywords: Pickett slide rules, manufacturing,

jos-index-v10-n1-2001-item5-page15.txt

Title: A Slide Rule for Wire Drawing Calculations

Author: Andrews, Howard W; Schure, Conrad

Summary: Description of a slide rule made specifically to calculate the number of pulls on a wire to achieve the desired length or area,

Keywords: Spencer Wire Company, wire drawing, Thornton A. G., Spencer-Taylor Wire Die Draft Calculator.

jos-index-v10-n1-2001-item6-page18.txt

Title: Keuffel & Esser – 1880 to 1899

Author: Otnes, Bob

Summary: Discussion of Keuffel & Esser slide rules during this period – Part 1 – describing the various catalogs.

Keywords: Keuffel & Esser, Dennert & Pape, Fuller Spiral slide rule, Cox W., Tavernier-Gravet engineer's rule, Gunter rule, Mannheim rule, common slide rule, framed cursor, Thacher

jos-index-v10-n1-2001-item7-page29.txt

Title: Classic Reprint: The "Duplex" Slide Rule

Author: Editor

Summary: Reprint from the Scientific American, August 12, 1893.

Keywords: Cox W., K&E, Cox Duplex slide rule, Dennert & Pape

jos-index-v10-n1-2001-item8-page30.txt

Title: Sikes's Hydrometer and Related Slide Rules

Author: Vander Meulen, Pierre

Summary: Description of the use of a hydrometer and the use of a comparative slide rule to determine proof

Keywords: Sikes's hydrometer, spirit, proof spirit, Clark's hydrometer, Sikes B., spirit-related slide rule, proof slide rule,

jos-index-v10-n1-2001-item9-page34.txt

Title: The Load Adjuster: It Looks Like a Slide Rule, But Is It?

Author: Hans, Mortimer

Summary: Description of the use of an aircraft load adjuster and the history of their manufacture.

Keywords: E-6B Flight Computer, Load Adjustors (aircraft), Cox & Stevens Aircraft Corporation, Revere Transducers,

jos-index-v10-n1-2001-item10-page39.txt

Title: An Article from 1815 on a Circular Slide Rule

Author: Wells, Francis (translator)

Summary: An article from the Bulletin de la Société D'Encouragement pour l'Industrie Nationale in 1815 on circular slide rules.

Keywords: French circular slide rules, Gattey Arithmographe

jos-index-v10-n1-2001-item11-page42.txt

Title: Letters: On Faber Log-Log Scales

Author: Kugel, Günter

Summary: Response to letter by P.C. Hanson's letter entitled *The A. W. Faber 379: Were the Log-Log Scales Improperly Made?*

Keywords: Faber S. W., Log-log slide rule,

jos-index-v10-n1-2001-item1-page44.txt

Title: Letters: On the K&E Log Spiral Slide Rule

Author: Abrahams, Peter

Summary: Response on an article by Rodger Shepherd on the K&E Log Spiral slide rule

Keywords: Shepherd R, log spiral slide rule, Mr. Dale,

jos-index-v10-n1-2001-item12-page44.txt

Title: Letters: On Machine-Time Slide Rules

Author: Maack, Dennis

Summary: Response to an article by Jeziarski and Shepherd (JOS 9:2, Fall, 2000) on Taylor machine-time slide rules.

Keywords: Taylor machine-time slide rules

jos-index-v10-n1-2001-item13-page45.txt

Title: Two German Wages Calculating Machines

Author: von Jeziarski, Dieter

Summary: Two German wage calculating machines are described

Keywords: Drehbarer Rechenschieber (rotating slide rule), Beyerlen A., Rechenrad (calculating wheel), Faber A. W., Davis J., Knott J.,

jos-index-v10-n1-2001-item14-page46.txt

Title: Norbert Wiener and the Slide Rule or How American Mathematicians Came of Age

Author: Wyman, Tom

Summary: Excerpt from a book by Norbert Wiener on the use of mathematics and mathematicians to solve ballistic problems in WW I.

Keywords: ballistics, slide rules, WWI

jos-index-v10-n1-2001-item15-page47.txt

Title: Financial Slide Rules

Author: Lazarus, Gary

Summary: Discussion of the importance of specialized financial slide rules and how they are used.

Keywords: financial slide rules, Faber-Castell FC 152/81, Faber-Castell FC 111/22

## Vol. 10, No. 2, Fall 2001

jos-index-v10-n2-2001-item1-page1.txt

Title: Tenth Anniversary Issue

Author: Otnes, Bob

Summary: Brief history of the first decade of the Journal of the Oughtred Society

Keywords: Journal of the Oughtred Society, JOS

jos-index-v10-n2-2001-item2-page2.txt

Title: Kilderkins, Hogsheads & Dipping Rods: A Brief History of the Slide Rule

Author: Wyman, Tom

Summary: Brief history of the slide rule. This is a modified reprint of an article published in the 2000-2001 issue of Imprint, published by the Association of the Stanford University Libraries

Keywords: Napier J., Gunter E., Oughtred W., Coggeshall H., Everard T., Farmar F. C., Routledge J., Watt J., Soho rule, Roget P. M., Keuffel & Esser, Mannheim A., Dixon T., Thacher S., Dennert & Pape, Hemmi, Sun-Hemmi, Cox W., Thacher E., Fuller, Rotorule, Dempster J. R., Dietzgen E., Engineering slide rule,

jos-index-v10-n2-2001-item3-page9.txt

Title: K&E Culture: The Story Behind the “Bronze Buckle”

Author: Soper, Joe

Summary: Attempt by K&E in the 1970s to increase creativity at K&E facilities

Keywords: Bergenty D., K&E,

jos-index-v10-n2-2001-item4-page10.txt

Title: “Wages Calculators” or Rim Slide Rules?

Author: Shepherd, Rodger; Fluhr, Zachary

Summary: Four “wages” slide rules and a new nomenclature for this class of slide rules

Keywords: Wasserman slide rule, Jorgensen Pencil cup, Small calculator, rim slide rules, wages calculator

jos-index-v10-n2-2001-item5-page10.txt

Title: The Faber-Castell Taschenrechner (TR): A Pocket Calculator Combined with a slide rule

Author: von Jeziarski, Dieter

Summary: The response by Faber-Castell to the introduction of pocket calculators

Keywords: Faber-Castell, pocket calculator, Faber-Castell Taschenrechner (TR3):

jos-index-v10-n2-2001-item6-page15.txt

Title: Mathematics on the Moon – The “Apollo” Pickett

Author: Freudiger; Michael; Freudiger Shannon; Hawthorn, Patrick; Koppany, Robert

Summary: Article describes the slide rule carried on the first five Apollo flights; the Pickett 600-ES

Keywords: Pickett 600 ES slide rule, Apollo Moon Flights,

jos-index-v10-n2-2001-item7-page19.txt

Title: Handicapping Derby Thoroughbreds: Edward’s Minit, Race-O-Matic, and Kel-Co II Slide Rules

Author: Finstuen, F.

Summary: The purpose of this article is to present a description and demonstration of slide rules for handicapping thoroughbred horse races.

Keywords: Edward’s “Minit” handicapper, Super Race-O-Matic, Kel-Co Improved Class Calculator

jos-index-v10-n2-2001-item8-page25.txt

Title: John Suxspeach's Catholic Organon or Universal Sliding Foot Rule, or The First Slide Rule Patent

Author: Hopp, Peter M.

Summary: This article explores the reasons why John Suxspeach received the first patent for a slide rule 130 years after Oughtred invented it.

Keywords: Suxspeach J., Macleay Museum, Parker B., Oughtred W.

jos-index-v10-n2-2001-item9-page30.txt

Title: The Norton and Sperry Bombsights

Author: Baron, Raymond

Summary: Discusses two WWII bombsights as unusual analog computing devices

Keywords: Norton bombsight, Sperry bombsight, WWII, Pardini A.L.,

jos-index-v10-n2-2001-item10-page31.txt

Title: Wittgenstein and His Calculating Devices

Author: Joss, Heinz

Summary: Article discusses the history and operation of the "Tesa Maximatic", a circular slide rule made in Switzerland and its inventor Gérard Francis Wittgenstein.

Keywords: Wittgenstein G.F., Tesa Maximatic, circular slide rule, Juvenia Montres SA, watch slide rules, French Stephens' Log Log Suprématic, Tesa Ltd., Jedermann circular slide rule,

jos-index-v10-n2-2001-item11-page37.txt

Title: Description of Two Unmarked Slide Rules of Probable French Origin

Author: Wyman, Tom

Summary: Article describes two unusual slide rules, one with two slides and the other a 50 cm slide rule. Both are thought to be French.

Keywords: Two-slide rule, survey calculations, Gravet-Lenoir, French,

jos-index-v10-n2-2001-item12-page38.txt

Title: The 30<sup>th</sup> Edition of the Keuffel & Esser Catalogue – 1900-01

Author: Otnes, Bob

Summary: This is the second of a multiple-part series on the subject of Keuffel & Esser slide rules during the period 1880 to 1915. This article concentrates on 1900-1901

Keywords: K&E Catalogue, Keuffel W. L. E., Thacher Calculator, Fuller slide rule, Charpentier Calculator, Boucher Calculator, Mannheim Slide Rules, Universal rules, Triangular rules, Stadia rules, Colby's rules, sewer rules, horse power rules,

jos-index-v10-n2-2001-item13-page45.txt

Title: The K&E Universal Slide Rule

Author: Otnes, Bob; DeCesaris, Bob

Summary: This article discusses the Keuffel and Esser Universal slide rule

Keywords: K&E Universal slide rule, prototypes, Keuffel W. L. E.

jos-index-v10-n2-2001-item14-page49.txt

Title: The Keuffel & Esser Triangular Slide Rule

Author: Schure, Conrad

Summary: This article discusses the Keuffel and Esser Triangular slide rule designed by W. L. E. Keuffel

Keywords: K&E Triangular slide rule, Keuffel W. L. E.,

jos-index-v10-n2-2001-item15-page52.txt

Title: The Evolution of the 4092

Author: Matthews, Kate

Summary: This article follows the evolution of Keuffel and Esser duplex 4092 slide rule from its introduction to the various changes and refinements it experienced over time.

Keywords: K&E Duplex 4092 slide rule,

jos-index-v10-n2-2001-item16-page55.txt

Title: Numeracy and the Slide Rule

Author: Wyman, Tom

Summary: This article reflects on the loss of numeracy among those who, in the absence of the handheld electronic calculator, would otherwise have used a slide rule.

Keywords: numeracy and slide rules,

jos-index-v10-n2-2001-item17-page56.txt

Title: The Saturday, June 30, 2001, 11<sup>th</sup> Annual Oughtred Society Meeting

Author: Koppany, R

Summary: Article reviews the events and happenings at the annual meeting

Keywords: 11<sup>th</sup> Annual Oughtred Society Meeting.

jos-index-v10-n2-2001-item18-page57.txt

Title: The Sheppard Duodecimal Slide Rule

Author: Otnes, Bob

Summary: Article describes the Sheppard Duodecimal slide rule, made for computing areas in square feet or volumes in cubic feet in duodecimal form.

Keywords: Sheppard F. H., Sheppard Duodecimal Slide Rule,

jos-index-v10-n2-2001-item19-page58.txt

Title: The Spiral Slide Rule

Author: Fuller, George

Summary: The article was excerpted from Nature, Vol 20, May 8<sup>th</sup> 1879.

Keywords: Spiral slide rule, Fuller G.,

jos-index-v10-n2-2001-item20-page59.txt

Title: The Keuffel and Esser "American Slide Rule"

Author: Schure, Conrad

Summary: Article describes the layout of a K&E slide rule with the designation of "American", possible because it was the first slide rule K&E actually made themselves.

Keywords: K&E American Slide Rule,

jos-index-v10-n2-2001-item21-page60.txt

Title: Calculating Using the Diagonal Scale

Author: Sieber, James L.

Summary: The article describes the use of diagonal scales to carry out addition and subtraction.

Keywords: diagonal scale,

jos-index-v10-n2-2001-item22-page60.txt

Title: The International Meeting of Slide Rule and Mechanical Calculators, Munich, September 2001

Author: van Poelje, Otto

Summary: Description of the international meeting held in Munich on this date.

Keywords: The International Meeting of Slide Rule and Mechanical Calculators

jos-index-v10-n2-2001-item23-page62.txt

Title: Letter: Request for Information

Author: Ponick, David A.

Summary: Description of an antique classroom demonstration slide rule purchased on eBay.

Author: looking for information about it.

Keywords: classroom demonstration slide rule.

jos-index-v10-n2-2001-item24-page63.txt

Title: News and Reviews

Author: Editor.

Summary: Table of contents from issue 2, 2001 of the UK Slide Rule Gazette

Keywords: UK Slide Rule Gazette

jos-index-v10-n2-2001-item25-page64.txt

Title: A Note to Authors

Author: Editor.

Summary: Outline of how articles should be written for the Journal of the Oughtred Society

Keywords: Journal of the Oughtred Society

## Vol 11, No. 1, Spring 2002

jos-index-v11-n1-2002-item1-page1.txt

Title: From the President

Author: Wyman, Tom

Summary: Author describes the contributions of Rodger Shepherd to the Oughtred Society. He also comments on the inclusion of articles about mechanical calculators into the JOS.

Keywords: Shepherd R., mechanical calculators

jos-index-v11-n1-2002-item2-page2.txt

Title: From the Editor

Author: Otnes, Bob

Summary: Comments on the 7<sup>th</sup> Annual European Slide Rule and Calculator Meeting.

Keywords: van Poelje O., Bready J.,

jos-index-v11-n1-2002-item3-page3.txt

Title: Newton's Polynomial Solver

Author: Sangwin, Christopher J.

Summary: Describes a method of Newton for approximating roots of polynomial equations using slide rules

Keywords: Newton I., Collins J.,

jos-index-v11-n1-2002-item4-page8.txt

Title: Three American Printed Page Logarithmic Calculating Scales

Author: Chamberlain, Edwin J.

Summary: Article on printed page logarithmic scales, a variant of the "gridiron" type of slide rule.

Keywords: logarithmic scales, gridiron-type slide rule, K&E, Loewe, Clairault J B, Hassler, Hannington, Cherry, Billeter, Thacher, Roget, Everett, Goodchild Mathematical Chart, Harrison W.,

jos-index-v11-n1-2002-item5-page14.txt

Title: Printed Logarithmic Calculating Scale by Loewe

Author: Holland, Peter

Summary: Article on printed page logarithmic scales by Loewe and represents an intermediate stage at the beginning of the era of industrially manufactured slide rules in Germany.

Keywords: logarithmic scales, gridiron-type slide rule, Loewe, Dennert & Pape, Farber A.W., Nestler, Reiss,

jos-index-v11-n1-2002-item6-page17.txt

Title: Aristo Slide Rule Production in Bavaria

Author: Dennert, Irene

Summary: Describes the history of Aristo slide rule production in Bavaria, from the Author's presentation at the International Slide Rule Meeting in Munich, September 15 2001 with photographs of the manufacturing process...

Keywords: Dennert H., Aristo, Dennert J.C., Aristo Scholar, Aristo Studio, Dennert G.,

jos-index-v11-n1-2002-item7-page23.txt

Title: La Règle à Calcul: Lenoir, Gravet-Lenoir and Tavernier-Gravet Slide Rules

Author: Wells, Francis and Wyman, Tom

Summary: The role of the French in developing and refining slide rule design has not received the attention it merits. This paper traces the role of Etienne Lenoir and his son in the development and production of French slide rules.

Keywords: French slide rules, Lenoir, Gravet-Lenoir, Tavernier-Gravet, Mannheim A., Watt J.,

jos-index-v11-n1-2002-item8-page28.txt

Title: Early French Slide Rules in Various Collections

Author: Otnes, Bob; Schure, Conrad

Summary: Article summarizes information collected from members by the Oughtred Society on French slide rules

Keywords: French slide rules, Type I Runner, Type II Runner, Soho B style slide rule, Lenoir slide rule, Gravet-Lenoir Mannheim slide rule, Tavernier-Gravet Soho slide rule, Guy instruction book,

jos-index-v11-n1-2002-item9-page32.txt

Title: A Slide Rule for Radiation Calculations

Author: Andrews, Howard W.

Summary: Describes the design and manufacture of slide rules based on Planck's Law for the convenient calculation of various numbers associated with the radiation of an object.

Keywords: Maxwell, Hertz, Planck M., Einstein A., Thornton A. G., Admiralty Research Laboratory,

jos-index-v11-n1-2002-item10-page35.txt

Title: Teaching the Slide Rule

Author: Batcher, William

Summary: Article offers some teaching suggestions on using a slide rule in the classroom.

Keywords: Oughtred W, Napier J., Newton I., Pepys S., mathematical terms, Gunther's rule, teaching slide rule

jos-index-v11-n1-2002-item11-page38.txt

Title: Albert Nestler: Innovation and Quality

Author: Craenen, Guus

Summary: This article covers the Nestler Company and its slide rules, as well as the company's prehistory and dating of their slide rules.

Keywords: Nestler A, German period, Faber-Castell, Dennert & Pape, Beck T., Dennert & Pape, Reitz system, Darmstadt system, Anagit (plastic), Astralon (plastic), concrete slide rule, Maarschalkerwaard M van, Hemmi, Hewlett-Packard, Deutsches Reichs Patent (DRP), Peter H.-H., cursor, logo,

jos-index-v11-n1-2002-item12-page46.txt

Title: Letter to the Editor

Author: Shepherd, Rodger

Summary: Indexing JOS

Keywords: Oughtred Society, Gazette, Kring, RS-Brief,

jos-index-v11-n1-2002-item13-page47.txt

Title: The Voltage Drop Slide Rule by C. C. Moler

Author: Aldinger, Henry; Otnes, Bob

Summary: Discussion of an Electric Line Calculator patented by Charles C. Moler

Keywords: Moler C, Electric Line Calculator, Dennert & Pape, Aristo, Brown & Sharp gauge,

jos-index-v11-n1-2002-item14-page48.txt

Title: The Aristo Electronic Calculators

Author: Mosand, John

Summary: Discussion of Aristo electronic calculators

Keywords: Aristo, Dennert & Pape, electronic calculator

jos-index-v11-n1-2002-item15-page47.txt

Title: Two Unusual Early Slide Rules

Author: Knight, Robert

Summary: Concerns two early slide rules that may have been intended for timber measurement

Keywords: timber measurement, Coggeshall's rule, Wingate E, Mary Rose, Carpenter's rule, timber line, Chr. Cole Rule, T.F. Rule, two-slide rule, Digges L.,

jos-index-v11-n1-2002-item16-page53.txt

Title: The Lightning Calculator – Bonham, Hook and Pangborn

Author: Otnes, Bob

Summary: Article, adapted from a paper read before the International Slide Rule Meeting, held in Munich, attempts to sort out information about dial adders made by a number of different companies

Keywords: Bonham and Schram Company, Calculator Company, Pangborn Calculator, Lightning Calculator Company, Hook W., Pascal B., Lightning Adding Machine, Smallwood Calculator Company, Grand Rapids Lightning Calculator, Los Angles Lightning Adder

jos-index-v11-n1-2002-item17-page59.txt

Title: Two Tavernier-Gravet Slide Rule Systems

Author: von Jezierski, Dieter

Summary: The article is offered as a contribution to the evolving understanding of slide rules made by Tavernier-Gravet slide rules with système Béghin and système Lallemand

Keywords: French slide rules, Tavernier-Gravet slide rules, système Béghin, système Lallemand, Béghin slide rule, Béghin A., folded scales, Lallemand slide rule,

jos-index-v11-n1-2002-item18-page62.txt

Title: One Man's Collection

Author: O'Leary, Michael P.

Summary: Author: gives his opinion on the why and how of collecting slide rules.

Keywords: Pickett, Hemmi, Faber-Castell 62/83N

jos-index-v11-n1-2002-item19-page63.txt

Title: The Slide Rule and Early Astronaut Training

Author: Soper, Joe

Summary: Some observations of the training of pilots during their early training in the Test Pilot Training School. Some of these pilots went on to the NASA program as astronauts in training

Keywords: NASA, astronaut training,

## Vol. 11, No. 2, Fall 2002

jos-index-v11-n2-2002-item1-page1.txt

Title: The 8<sup>th</sup> International Meeting of Slide Rule Collectors –IM2002

Author: Wyman, Tom

Summary: Comments on the 8<sup>th</sup> International Meeting of Slide Rule Collectors, held in England

Keywords: IM2002, Otis King, 8<sup>th</sup> International Meeting of Slide Rule Collectors

jos-index-v11-n2-2002-item2-page2.txt

Title: The East Coast Oughtred Society Meeting

Author: Schure, Conrad

Summary: Comments on the 6<sup>th</sup> Annual Eastern Regional Meeting of the Oughtred Society, held in Hightstown, New Jersey

Keywords: 6<sup>th</sup> Annual Eastern Regional Meeting of the Oughtred Society

jos-index-v11-n2-2002-item3-page2.txt

Title: Mea Culpa

Author: Otnes, Bob

Summary: Comments on the lateness of this JOS issue

Keywords: Journal of the Oughtred Society

jos-index-v11-n2-2002-item4-page3.txt

Title: The Fowler Calculators – a Catalogue Raisonné

Author: Blankenhorn, Richard; De Cesaris, Robert

Summary: The article provides a catalog of known models of Fowler calculators with descriptions of their cases and photographs of selected models.

Keywords: Fowler calculators, Fowler W. H., circular slide rules,

jos-index-v11-n2-2002-item5-page12.txt

Title: Book Review: *Discussing Chemistry and Steam, The Minutes of a Coffee House Philosophical Society 1780 – 1787* by Trevor Levere and Gerald L'E. Turner

Author: Wyman, Thomas

Summary: Book Review

Keywords: Coffee House Philosophical Society, Levere T., Turner G. L.'E., Nicholson W.,

jos-index-v11-n2-2002-item6-page13.txt

Title: The Remarkable Hemmi 22

Author: Schure, Conrad

Summary: Description of the SUN-HENNI Model 22, a slide rule comprised of only two pieces, with accompanying photograph

Keywords: Sun-Hemmi Model 22,

jos-index-v11-n2-2002-item7-page14.txt

Title: 101 Things to Do on a Wet Afternoon

Author: Rath, Wendy

Summary: Exploring Newton's assertion that equally spaced parallel lines of numbers could be employed for the extraction of roots of polynomial equations, using surplus slide rules,

Keywords: Newton I.

jos-index-v11-n2-2002-item8-page15.txt

Title: Frederick H. Leubuscher and K&E Salisbury Products, Inc

Author: Soper, Joe

Summary: This article covers the history of the K&E Salisbury Plant in Lakeville, CT and Fred Leubuscher's role in making it happen.

Keywords: Leubuscher F. H., K&E, Keuffel A. W.,

jos-index-v11-n2-2002-item9-page21.txt

Title: Tavernier-Gravet Slide Rules: a Chronology of Cited Examples

Author: Venetsianos, Panagiotis

Summary: This article is offered as a contribution towards the evolving understanding of Tavernier-Gravet and related slide rules. It calls attention to eight key references and lists the T-G rules that are cited in these references.

Keywords: Lenoir E., Gravet-Lenoir, Tavernier-Gravet,

jos-index-v11-n2-2002-item10-page24.txt

Title: The 31<sup>st</sup> (1903) and 32<sup>nd</sup> (1906) Editions of the K&E Catalogue

Author: Otnes, Bob

Summary: This is the third article in a series by this Author on the early Keuffel & Esser catalogs and slide rules, with reproduced pages from both catalogs.

Keywords: K&E catalogues, reckoning machine, Burkhardt arithometers, Autirith, Goodchild Mathematical Chart, Boucher Calculator, Webb's Stadia rule, Sperry Calculator,

jos-index-v11-n2-2002-item11-page33.txt

Title: The Conceptual Logarithmic Dividing Engine

Author: O'Leary, Michael P.

Summary: An explanation of the logic behind the logarithmic dividing engine and how all the mechanisms involved work in concert.

Keywords: logarithmic dividing engine,

jos-index-v11-n2-2002-item12-page35.txt

Title: The Keuffel & Esser Logarithmic Dividing Engine

Author: O'Leary, Michael P.

Summary: A description of how the author "adopted" and restored a Keuffel & Esser Logarithmic Dividing Engine, with photographs. .

Keywords: K&E logarithmic dividing engine, American Precision Museum (Windsor VT), Alteneder T.,

jos-index-v11-n2-2002-item13-page41.txt

Title: The Meilike "Calculators"

Author: Aldinger, Henry; Otnes, Bob

Summary: Description and use of the Meilike calculator, a forerunner of the mechanical calculator.

Keywords: Meilike C. A., Meilike calculator card index, index book

jos-index-v11-n2-2002-item14-page42.txt

Title: Shadows of the Atomic Age

Author: Maor, Eli

Summary: Article about Rudolph Stiefel, uncle of the Author. He was a refugee from Nazi Germany, who contributed greatly to the development of computers.

Keywords: Truman H. S., Albert Nestler slide rule, Ollendorff F.,

jos-index-v11-n2-2002-item15-page44.txt

Title: Neither Straight, Circular nor Cylindrical: The Ring Binder Slide Rule of Franckh, Stuttgart

Author: Joss, Heinz; Shepherd, Rodger

Summary: Article about origin and operation of a Ringbuch Rechenscheiber (ring binder slide rule), a device which is designed for carrying out multiplication, division, roots and powers, with photographs included.

Keywords: ring binder slide rule, nonograms, Thiel,

jos-index-v11-n2-2002-item16-page48.txt

Title: Thomas Fowler's Ternary Calculating Machine: How a 19<sup>th</sup> Century Inventor's Departure from Decimal Presaged the Modern Binary Computer

Author: Glusker, Mark

Summary: Article describes a large, wooden calculating machine, built in 1840 by Thomas Fowler, which may have been one of the first uses of lower bases for computing machines.

Keywords: Fowler T., DeMorgan A., Babbage C., de Colmar T., Arithmometer, von Leibnitz G. W., Torrington Museum and Archive,

jos-index-v11-n2-2002-item17-page50.txt

Title: "Ratcliffe" – Mathematical Instrument Making in the Area

Author: Hopp, Peter M

Summary: Article describes the history of Ratcliffe, in the Stepney area of London, and the history of the growth of instrument making in the area.

Keywords: Instrument making, Ratcliffe, Shaswell T., Cumberford N., Bissaker R., Penny J., Smith P., Swetman J., Suxspeach J., Lekeux R., Garrard T., Parnell T., Browning J., Clerk J., King J., Elliott W., Tustian T., Spenser W., Spenser A., Penny W., Hughes J., Crogger N., Walker F., Tustian T., Hemsley H.,

jos-index-v11-n2-2002-item18-page55.txt

Title: Custom Officers and the London Docks

Author: Wyman, Tom

Summary: Photograph of gaugers at work on the London Docks is described and discussed.

Keywords: gaugers, London docks, gauging, Queen's pipe,

jos-index-v11-n2-2002-item19-page56.txt

Title: The Easterly Rafter Slide Rule or a Man and His/My Slide Rule

Author: Castleberry, Clay

Summary: The discovery of an Easterly slide rule led the Author to search the history of the unusual slide rule

Keywords: Easterly J.I., Easterly rafter calculator, Easterly rafter framer, Pickett 1082-ES

jos-index-v11-n2-2002-item20-page58.txt

Title: Miscellaneous

Author: Editor

Summary: Article discusses multiplication by quarter squares

Keywords: multiplication by quarter squares, Napier's bones

jos-index-v11-n2-2002-item21-page59.txt

Title: American Planimeters

Author: Bob Otnes

Summary: Discussion of some American planimeters, with photographs.

Keywords: Amsler J., Planimeters, K&E, Laisco, Willis planimeter, Trill Planimeter, Lippincott planimeter, Ashcroft planimeter, Bushnell-Coffin planimeter , Durand radial planimeter, Foxboro linear radial planimeter, Bailey Meter Co planimeter, American Meter Co. non-radial planimeter

## Vol. 12, No. 1, Spring 2003

jos-index-v12-n1-2003-item1-page1.txt

Title: Message From the President

Author: Wyman, Tom

Summary: Comments on the expansion of the JOS to include articles on mechanical calculators

Keywords: mechanical calculators

jos-index-v12-n1-2003-item2-page1.txt

Title: The Oughtred Society West Coast 13<sup>th</sup> Annual Meeting/Show/Auction

Author: Editor

Summary: Outline of annual meeting plans for the 13<sup>th</sup> Annual Meeting/Show/Auction in Palo Alto, CA

Keywords: Oughtred Society annual meeting

jos-index-v12-n1-2003-item3-page1.txt

Title: International Meeting IM2003 in Amsterdam

Author: van Poelje, Otto

Summary: Outline of 2003 International meeting plans

Keywords: IM2003, International Meeting

jos-index-v12-n1-2003-item4-page2.txt

Title: Book Reviews – The Collector’s Library -*The Measure of All Things* by Ken Alder, Reinventing *the Wheel* by Jessica Helfand, *Calculating on Slide Rule and Disc “2 X 3...approximately 6* by IJ Schuitema and H. van Herwijnen and *A treatise of Such Mathematical Instruments as Are Usually Put Into a Portable Case* by John Robertson (a reprint of the 1775 Third Edition)

Author: Shepherd, Rodger

Summary: Article reviews four recent publications

Keywords: Alder K., Helfand J., van Herwijnen H., Robertson J., book reviews

jos-index-v12-n1-2003-item5-page4.txt

Title: Five Pickett Electronics Slide Rules

Author: Borchers, Brian

Summary: Five Pickett slide rules especially designed for electronics calculations are described.

Keywords: Pickett N515-T, Pickett N531-ES, Pickett N535-ES, Pickett N1020-ES, Pickett N16-ES, Cleveland Institute of Electronics, Capitol Radio Electronics Institute, Chan Street, National Radio Institute,

jos-index-v12-n1-2003-item5-page8.txt

Title: Textile Slide Rules – Special-Purpose Calculators for a Major Industry

Author: Wyman, Tom

Summary: This article points out the remarkable variety of slide rules that were designed for use in the English textile industry

Keywords: Cartwright E, Slater W, Gleave J, Routledge-type, Fowler & Company, Pickworth’s Patent Cotton Cloth Computer, Soho type rule, Lord’s Cotton Cloth Coster, Casartelli & Son, Everite Tailor’s Rule, Hogg rule, Glaser W. H.,

jos-index-v12-n1-2003-item6-page15.txt

Title: The M. & P. Patent

Author: Editor

Summary: Illustration from a French patent obtained by MM Meyrat & Perdrizet on a pocket watch size slide rule

Keywords: Meyrat & Perdrizet, pocket watch slide rule

jos-index-v12-n1-2003-item7-page16.txt

Title: Snipes and Poppers: A Collectors Introduction to Buying and Selling on eBay – Part One: How to Buy

Author: Matthews, Kate

Summary: The article, the first of two, focuses on buying slide rules on eBay

Keywords: eBay, sniping, popping

jos-index-v12-n1-2003-item8-page18.txt

Title: How Does Analon Work

Author: O’Leary, Michael P.

Summary: This article describes the K&E Analon slide rule and the similarities and differences between it and more typical slide rules.

Keywords: K&E Analon

jos-index-v12-n1-2003-item9-page19.txt

Title: Suxspeach (Continued)

Author: Hopp, Peter

Summary: This article adds two further examples of John Suxspeach’s Catholic Organon and some information from which one can deduce the background behind the development of this idiosyncratic device.

Keywords: Suxspeach rules, Cartwright J.,

jos-index-v12-n1-2003-item10-page23.txt

Title: A Most Unusual K&E Slide Rule

Author: Schure, Conrad

Summary: This article is about a truly rare K&E slide rule which appears to have been developed for engineers who worked in the design and fabrication of large structures.

Keywords: K&E, slide within a slide, Mannheim, two-slide,

jos-index-v12-n1-2003-item11 -page25.txt

Title: Keuffel & Esser Slide Rules 1909

Author: Otnes, Bob

Summary: This article continues the review of K&E catalogs with a description of the contents of the 33<sup>rd</sup> (1909) edition

Keywords: K&E catalog, Reckoning machines, Thacher calculator, Fuller slide rule, Sperry’s pocket calculator, K&E’s pocket calculator, Mannheim slide rules, K&E polyphase slide rules, duplex slide rules, Universal and metal slide rules, Webb Stadia rules, Reckoning Machine, Sperry slide rule,

jos-index-v12-n1-2003-item12 –page33.txt

Title: Lightning Subtraction

Author: McFarland, David D.

Summary: Discussion of the Lightning Adding Machines, which could also subtract, and how they work. The other main concern of the article pertains to the history of the academic discipline of sociology.

Keywords: Lightning Adding Machine, Burroughs adding machine, Comptometer adding machines, Monroe four-function calculator, sociology, Ogburn W. F., Giddings F. H., Bonham W.R., Hook R.W., subtraction by addition of complements, Pascal B., Treviso arithmetic, Soroban, Calculator, linked registers,

jos-index-v12-n1-2003-item13–page41.txt

Title: A Comprehensive Hemmi Slide Rule Catalog

Author: Ross, Paul

Summary: This article attempts to list every Hemmi-brand slide rule that was available to the general public. This doesn't include Hemmi slide rules sold under another brand (e.g Post Versatrig)

Keywords: Hemmi slide rules, Hemmi 1002 Circular slide rule, Hemmi p36; 2/1; 81/3; P425

jos-index-v12-n1-2003-item14–page54.txt

Title: The Computing Board: An Ambitious All-Purpose Calculating Device and Some Similar Concepts

Author: Williams, Bruce O. B.

Summary: Description of the use of this unusual computing device.

Keywords: The Computing Board, Yang W., Engineering Designs Co., Wheildon W. M., Goodenow F. I.,

jos-index-v12-n1-2003-item15–page59.txt

Title: The Groesbeck Adder (1870)

Author: Otnes, Bob

Summary: A description of the Groesbeck Adder, a dial adder operated with a stylus, dials in a row, no clearing mechanism, but with no subtraction

Keywords: Groesbeck Adder, Groesbeck J.,

jos-index-v12-n1-2003-item16–page63.txt

Title: The Cox Lathe Gear Computer

Author: Andrews, Howard; Schure, Conrad

Summary: A description of the Cox Lathe Gear Computer, its operation and use.

Keywords: Cox Lathe Gear Computer, Cox W., Niles Tool Works, Ramsden, Wilkinson, Maudsley,

## Vol. 12, No. 2, Fall 2003

jos-index-v12-n2-2003-item1-page2.txt

Title: IM2003 – A Memorable Event

Author: Wyman, Tom

Summary: Comments on the 9<sup>th</sup> International Meeting of Slide Rule Collectors, held in Amsterdam

Keywords: The 9<sup>th</sup> International Meeting of Slide Rule Collectors

jos-index-v12-n2-2003-item2-page3.txt

Title: IM2003 – Slide Rules at a Gathering of the Oughtred Society, the reckoning may be dead or logarithmic, but the conversion is always right on the mark

Author: Tudor, Silke

Summary: A newspaper article about a meeting of the Oughtred Society

Keywords: Oughtred Society

jos-index-v12-n2-2003-item3-page6.txt

Title: The September 2003 Symposium in Greifswald

Author: Editor

Summary: Table of contents of a symposium held in Greifswald, Germany September 12-14, 2003

Keywords: 2<sup>nd</sup> Greifwalder symposium zur Entwicklung Rechentechnik

jos-index-v12-n2-2003-item4-page7.txt

Title: The UK Slide Rule Circle

Author: Barnes, Colin

Summary: Comments on the formation and publication of the UK Slide Rule Circle, an informal group of slide rule enthusiasts

Keywords: UK Slide Rule Circle, Skid Stik, Slide Rule Gazette

jos-index-v12-n2-2003-item5-page7.txt

Title: Book Review: *The Slide Rule, Technical Cultural Heritage*

Author: van Poelje, Otto E.

Summary: Review of a book by IJzebrand Schuitema

Keywords: Schuitema I., slide rule history

jos-index-v12-n2-2003-item6-page8.txt

Title: Rod Lovett's Website

Author: Editor

Summary: Website review

Keywords: Lovett R., website,

jos-index-v12-n2-2003-item7-page9.txt

Title: The Incredible Curta –“A Nifty Thing”

Author: Staff

Summary: A comparison of the Curta calculator with some other mechanical calculators

Keywords: Curta, Piano Arithmometre, Leibniz wheel, Colmar T.d., Millionaire Calculator, MADAS,

jos-index-v12-n2-2003-item8-page10.txt

Title: Keuffel & Esser Slide Rules - 1913

Author: Otnes, Bob

Summary: Last in a series of articles discussing the K&E slide rules and calculators from 1881 to 1913. This covers pages 292 to 308 of their 1913 catalogue.

Keywords: K&E, Keuffel & Esser, Peerless Reckoning Machine, Fuller, Sperry Calculator, K&E Calculator, Polyphase slide rule, Polyphase Duplex, circular fraction adder, Mannheim, Stadia slide rules, Nordell Sewer slide rule,

jos-index-v12-n2-2003-item9-page17.txt

Title: Lang's Grain Density Caliper-Slide Rule Combination

Author: von Jezierski, Dieter

Summary: With two slide rule operations the operator could calculate two factors that were important in determining the varieties of grain most suitable for further breeding.

Keywords: Faber A. W., A. W. Faber-Castell, Lang H, caliper, grain density,

jos-index-v12-n2-2003-item10-page20.txt

Title: The Evolution of the K&E 4088-2 and 4088-3 Slide Rules

Author: Babcock, Bruce E.

Summary: Discussion of the origin and development of the K&E Polyphase slide rule, with photographs...

Keywords: K&E Polyphase slide rule, K&E 4088-2, K&E 4088-3

jos-index-v12-n2-2003-item11-page25.txt

Title: Twin Slide Rules? The K&E 4088 and the Post 1458

Author: Babcock, Bruce E.

Summary: Comparison of the K&E 4088 and the Post 1458 slide rules

Keywords: K&E 4088-3, Hemmi/Post 1458,

jos-index-v12-n2-2003-item12-page27.txt

Title: Addition and Subtraction with Slide Rules and Allied Instruments, Part I

Author: McFarland, David D.

Summary: This article focuses on the addition and subtraction of decimal numbers with slide rules...

Keywords: addition, subtraction, Cajori F., Giddings F.H., Clark J. J., Burgess and Sauerberg, Hills J., Bishop C., Barth C. G., Direct Reading Richardson, Addiator, ALCO Personal Calculator, Kuebler C., nomograph, nomography, Pickett Simplex Math Rule N901

jos-index-v12-n2-2003-item13-page37.txt

Title: Snipes and Poppers: A Collector's Introduction to Buying and Selling on eBay- Part Two – How to Sell

Author: Matthews, Kate

Summary: The article offers readers the basic knowledge needed to sell slide rules on eBay including how to photograph slide rules, preparing your listing, writing your listing and pricing strategies.

Keywords: eBay, selling slide rules, popper, snipes,

jos-index-v12-n2-2003-item14-page42.txt

Title: Just Popping Along

Author: Matthews, Kate

Summary: Article describes the Author's success on EBay selling a padlock.

Keywords: eBay, popper, selling slide rules,

jos-index-v12-n2-2003-item15-page43.txt

Title: The Boucher Style Pocket Calculator

Author: Otnes, Bob

Summary: The article describes the origin and description of the Boucher pocket calculator and its operation.

Keywords: Boucher A.E.M., Boucher Calculator, Gilson circular slide rule, Calculiagraphe HC, Dieztgen E., Boucher 1, Boucher 2, Boucher 3,

jos-index-v12-n2-2003-item16-page49.txt

Title: The Demise of the Slide Rule (and the Advent of its Successors)

Author: van Poelje, Otto

Summary: Description of the transition from slide rules to electronic calculators. It considers the actual usage of the slide rule, the performance of calculating instruments and the evolution of electronic calculators.

Keywords: ANITA MkVII, Friden EC-130, Mathatron, HP9100A, Sharp EL-8, HP 35, HP48, CORDIC, HP65Texas Instrument, HP Solver,

jos-index-v12-n2-2003-item17-page54.txt

Title: Textile Slide Rules – A Supplement

Author: Wyman, Tom

Summary: This article, a follow-up on the Author's previous article on Textile slide rules, focuses on textile slide rules produced more recently

Keywords: Faber-Castell 57/74, George Hatterley & Son P 3969 77, Aristo-Textil Nr. 930 System Beck, Phildar Volumail circular slide rule, Aristo Nr. 80125 Textile Rule, Pickworth Patent Cotton Cloth Computer

jos-index-v12-n2-2003-item18-page57.txt

Title: Who Remembers What a Slide Rule Is?

Author: Langland, Connie

Summary: Excerpt of an article published by the Author: in the Philadelphia Inquirer

Keywords: Philadelphia Inquirer, Langland C., Gotlib L., slide rule

jos-index-v12-n2-2003-item19-page59.txt

Title: The Imperial Equalisation Slide Rule

Author: Schure, Conrad

Summary: Article describes a slide rule designed to facilitate the conversion of Ale gallon, corn gallon and wine gallon to the imperial gallon

Keyword: Long J., imperial gallon, wine gallon ale gallon corn gallon,

jos-index-v12-n2-2003-item20-page59.txt

Title: Instructions for Author's

Author: staff

Summary: Method of putting references into articles in the JOS

Keywords: JOS, Author's, references

jos-index-v12-n2-2003-item21-page60.txt

Title: A Binary Based Slide Rule

Author: Otnes, Bob

Summary: Article postulates designing a simple slide rule for binary arithmetic.

Keywords: binary slide rule,

jos-index-v12-n2-2003-item22-page61.txt

Title: Der Rechenuhr

Author: Andrews, Howard W.

Summary: Article describes the operation of an unusual circular slide rule used with a lathe.

Keywords: Schacht & Westerich, rechenuhr, circular slide rule

jos-index-v12-n2-2003-item22-page63.txt

Title: A Slide Rule to Handle Five Factors Simultaneously

Author: Conrad Schure

Summary: Article discusses a special-purpose slide rule used for determining the flow of air and gas in pipes, in accordance with a formula devised by Dr. Pole.

Keywords: Tavernier-Gravet, Pole, five factors slide rule,

## Vol. 13, No. 1, Spring 2004

jos-index-v13-n1-2004-item1-page1.txt

Title: President's Message

Author: Wyman, Tom

Summary: Comments on the long-range planning for the society

Keywords:

jos-index-v13-n1-2004-item2-page1.txt

Title: From the Editor

Author: Otnes, Bob

Summary: Copyright questions about the JOS

Keywords: copyright,

jos-index-v13-n1-2004-item3-page2.txt

Title: Book Reviews-*100 Jahr Dennert & Pape, Aristo-Wert, Hamburg* by Dennert & Pape; *A Source Book for Rule Collectors* by Phillip E. Stanley

Author: Editor

Summary: This is a review of a book on the history of Dennert & Pape written in 1962, and a source book for slide rule collectors

Keywords: Dennert & Pape, 100 Jahr Dennert & Pape, Aristo-Wert, Hamburg, Stanley P. E., A Source Book for Rule Collectors

jos-index-v13-n1-2004-item4-page2.txt

Title: Miscellaneous Rules

Author: Otnes, Bob

Summary: The subject of this article is relatively modern 10 and 11 inch rules produced in Great Britain

Keywords: 10 and 11 inch rules,

jos-index-v13-n1-2004-item5-page3.txt

Title: A U.S. Navy Radar Slant Range Computer

Author: Hans, Mortimer

Summary: Discusses the origin and use of a slant range computer before on-board computers were available.

Keywords: slant range computer, U.S. Navy, Theo. Alteneder & Sons

jos-index-v13-n1-2004-item5-page5.txt

Title: Miscellaneous Rules II

Author: Otnes, Bob

Summary: The subject of this article is a Lilley & Sons slide rule, similar to one made by D&P for K&E

Keywords: Lilley and Sons, D&P, K&E,

jos-index-v13-n1-2004-item6-page6.txt

Title: Slide Chart Calculators – A Modest Proposal

Author: Wyman, Tom

Summary: The focus of this article is the wide range of special-purpose cardboard and plastic calculating devices distributed by many companies, beginning in the 1930s for promotional and advertising purposes.

Keywords: slide chart calculators, promotional calculators, parallel resistance calculator, aluminum circuit calculator, Perrygraf Corporation, P/E ratio, Dividend and Commission Calculator, Bellview Spring Design Calculator, IWA Slide Charts, TAD Products Corporation, Datalizer Slide Charts, Blundell Harling Group, M.H. Mear & Co., Gas Flow Calculators, Pipe Flow Calculators, Fearn-Mear, Tensor Calculator, Concise Company Ltd.

jos-index-v13-n1-2004-item7-page11.txt

Title: Gunter Rules in Navigation

Author: van Poelje, Otto

Summary: This article addresses the Gunter rule, with its background, its scales, and its application in navigation at sea.

Keywords: Gunter E., Standard Gunter Rule, Kepler, Napier J., Briggs H., knots, Gunter's quadrant, Galileo, dividers, Meridional scale, Bowditch, Rules for navigation, Wingate E., Plain-Scale, Aspley Plain-scale, Hollandia Plain-Scale, t' Vliegend Hart Plain-Scale, Boerhaave Plane-Scale

jos-index-v13-n1-2004-item8-page22.txt

Title: Miscellaneous Rules III

Author: Otnes, Bob

Summary: Article discusses a Soho or Engineer's type slide rule probably made in Great Britain from 1850 to 1940

Keywords: Soho, Engineer's type rule

jos-index-v13-n1-2004-item9-page23.txt

Title: Long-Scale Slide Rules Revisited

Author: Chamberlain, Edwin J.

Summary: This article reviews the historical development of long-scale slide rules, defines the different categories and formats, and presents many examples. Charts of slide rules included.

Keywords: Cajori F., Fowler's Long-Scale, Tavernier-Gravet Long-scale slide rule, Calculigraphe pocket watch slide rule, Nestler Präzision, Oughtred W., Forster W., Delamain R., Brown J., John Brown Spiral slide rule, Sutton spiral slide rule, Ward J., Scott B., Adams G., Facini B., Lambert J. H., Robertson sliding Gunter slide rule, Clairaut J. B., Nicholson W., Donn Navigation Rule, Delamoriniere and Delaveleye, Mannheim, Praux E., Tavernier-Gravet, Lallemand T-G slide rule, Palmer A., Fuller J. E., Fuller-Palmer, Nystrom Calculator, Hassler F. R., Hannington's gridiron slide rule, Aston & Mander, Cherry's gridiron slide rule, Fuller cylindrical slide rule, Billeter gridiron slide rule, Dixon's Combined Circular, Spiral, Multi-Index Slide Rule, K&E, Dietzgen, Stanley W. F., Fuller Calculator, Smith Calculator, Thacher E., Thacher cylindrical slide rule, Daemen-Schmid, Loga, Billeter, Scofield-Thacher Engineer's slide rule, Texas Magnum, Solberg S, Francis J, Nestler Precision #27/9, Post Ritow Long slide rule, Unique Pioneer Long-scale, Hemmi #201, Proell's gridiron Pocket Calculator, Australian Slide Rule, Pickworth, Calculigraph, Gilson Slide Rule Company, Cooper, Richardson Direct Reading slide rule, Gladstone's "Cross Gauge", Marotti "Lagartabla" gridiron, Logarithmal, Lurie A N, Richardson, Wang Y, Appoullot "Logz" circular slide rule, Goodchild Mathematical Chart, LaCroix and Ragot Graphic Table, Dumesnil C, MacMillan Table Slide Rule, Knowles "Calculating Scale", circular slide rules with circular scales, Tröger, Gilson Binary, Atlas circular slide rule, Scott circular slide rule, Clairault circular slide rule, Boucher Calculigraphe,

Dempster Rota-Rule, Pickett and Boykin, Unique “Dial Calculator”, Sexton “Omnimetre #6 (Companion), Gilson Atlas, Logomat “V&G Nr. 816”, Alro “Commercial” slide rule, Concise “M.V. Douglas, Felsenthal Altitude Correction Computer, Fuller helix “Calculator”, Frederick Post Co., Otis King pocket cylindrical slide rule, R.H. Smith Calculator, Lafay A., Tröger cylindrical slide rule, “Helice a Calcul-No2”, Loga Rechenwalze, Nestler rechenwalze, Kooler Calculator, Giken M, Schneider E., “Reciloga”, Paisley slide rule, Paisley “Calculator”, tape slide rule, Thacher Calculator,

jos-index-v13-n1-2004-item10-page44.txt

Title: Renard’s Preferred Numbers

Author: van der Salm, Simon A. M.

Summary: Article discusses preferred numbers, discovered by Charles Renard in 1877, and their history.

Keywords: Renard C., preferred numbers, Aristo NZ Rules,

jos-index-v13-n1-2004-item11-page53.txt

Title: Note to Authors

Author: Editors.

Summary: Standardizing bibliographic references

Keywords: bibliographic references

jos-index-v13-n1-2004-item13-page54.txt

Title: A Man and His Slide Rules – Tools for a Lifetime

Author: Matthews, Kate

Summary: Article discusses Boyd Stewart, who discovered the wonder of slide rules in 1918 and used them until his death in 2004.

Keywords: Soho, Engineer’s type rule, Stewart B.,

jos-index-v13-n1-2004-item13-page60.txt

Title: The Hasselblatt Slide Rule System

Author: Leipala, Timo

Summary: Article discusses the life of Arthur Hasselblatt, who designed the first slide rule made in Russia.

Keywords: Hasselblatt slide rule, Hasselblatt A.,

jos-index-v13-n1-2004-item14-page64.txt

Title: The Amazing “P” Scales

Author: Mosand, John

Summary: Article discusses the introduction of the Pythagorean scale (P) to the Rietz layout of the Darmstadt System and how it is used.

Keywords: Faber-Castell, Pythagorean scale, Aristo 0906LL, Aristo MultiTrig,

## Vol. 13, No. 2, Fall 2004

jos-index-v13-n2-2004-item1-page1.txt

Title: In Memoriam – Herman van Herwijnen

Author: Schuitema, IJzebrand

Summary: Obituary of Herman van Herwijnen

Keywords: van Herwijnen H,

jos-index-v13-n2-2004-item2-page2.txt

Title: Announcements

Author: Staff

Summary: Announcements of Oughtred Society meeting schedule for 2005 and the introduction of the Oughtred Society swap sheet online

Keywords: Oughtred Society meetings, Swap Sheet,

jos-index-v13-n2-2004-item3-page2.txt

Title: Book Reviews

Author: Borchers, Brian; Craenen, Gus; Otnes, Bob

Summary: Books reviewed: *The History of Mathematical Tables: From Sumer to Spreadsheets* by M. Campbell-Kelly, M. Croarken, R. Flood and E. Robson; *Nestler Buch* (in German); *Dictionnaire des fabricants français d'instruments de mesure du XVth au XIX siècle* by Franck Marcelin (in French)

Keywords: Campbell-Kelly M., Croarken M., Flood R., Robson E., Marcelin F.

jos-index-v13-n2-2004-item4-page4.txt

Title: IM 2004 in Bad Driburg, Germany

Author: Kuehn, Klaus

Summary: Review of these years International Meeting of Slide Rule and Calculator Machine Collectors in Germany

Keywords: IM 2004,

jos-index-v13-n2-2004-item5-page5.txt

Title: Letters

Author: Wyman, Tom

Summary: Letters on Ed Chamberlains article on "Long-Scale Slide Rules Revisited"

Keywords: Long-Scale slide rules, Wyman T.,

jos-index-v13-n2-2004-item6-page5.txt

Title: Letters

Author: Zeldes, Nathan

Summary: Letter on promoting Oughtred Society Membership

Keywords: Oughtred Society membership

jos-index-v13-n2-2004-item7-page7.txt

Title: Announcing the Oughtred Society Slide Rule Reference Manual

Author: Hume, Ted

Summary: Announcement of the availability of this reference manual

Keywords: Oughtred Society Slide Rule Reference Manual

jos-index-v13-n2-2004-item8-page8.txt

Title: A Landmark Acquisition: The Keuffel & Esser Company Slide Rule Collection Comes to the MIT Museum

Author: Douglas, Deborah G

Summary: History of the acquisition of the K&E slide rule collection by MIT.

Keywords: MIT, K&E slide rule collection, InteliCoat

jos-index-v13-n2-2004-item9-page10.txt

Title: A.W. Faber Model 366 – System Schumacher A Very Unusual Slide Rule

Author: von Jezierski, Dieter; Zerfowski, Detlef and Weinmann, Paul

Summary: This article describes the Schumacher slide rule which has unusual scale divisions and configuration. This is because it is based on a totally different mathematical concept other than logarithms. It also describes the use of this slide rule.

Keywords: Schumacher System, Schumacher J., Faber A. W.,

jos-index-v13-n2-2004-item10-page17.txt

Title: The Hemmi 22: Revisiting “A Dandy Little Slide Rule”

Author: Castleberry, Clay

Summary: Article describes the Hemmi 22, an unusual slide rule made of sandalwood.

Keywords: Hemmi 22, Ritlow Merchant’s Log Log slide rule, Easterly Rafter Calculator, sandalwood

jos-index-v13-n2-2004-item11-page18.txt

Title: The Museum of Early Engineering Technology

Author: Schure, Conrad

Summary: Article Description of a little museum in Connecticut that has an extensive collection of slide rules.

Keywords: Museum of Early Engineering Technology, Westbrook CT,

jos-index-v13-n2-2004-item12-page19.txt

Title: H. W. Kearns & Co. Ltd. – Machine Time Computer by Fowler

Author: Blankenhorn, Rick

Summary: Article describes an unusual Fowler calculator.

Keywords: H. W. Kearns & Co. Ltd., Fowler Calculator, machine time computer

jos-index-v13-n2-2004-item13-page20.txt

Title: The Duplex Slide Rule

Author: William Cox

Summary: Article reprinted from “The Compass”, November 1891 p63, which gives one of the first descriptions of the duplex slide rule.

Keywords: Cox W., duplex slide rule, inverted scale, The Compass,

jos-index-v13-n2-2004-item14-page21.txt

Title: A Note on the Inverted Scale

Author: Otnes, Bob

Summary: The article compares the use of the inverted scale in a duplex slide rule to the use of an inverted scale on 18<sup>th</sup> century gauging rules. He also describes how the gauging scale was used.

Keywords: Inverted scales, Cox W., malt gauging scales, Cook T.,

jos-index-v13-n2-2004-item15-page22.txt

Title: Diagonals and Transversals: Magnifying the Scale

Author: van Poelje, Otto

Summary: Article discusses the design of scales to improve the scale-reading precision beyond the physical limits to fineness and visibility of scale markings.

Keywords: Gunter Rule, diagonals, transversals, dividers, astrolabe, Nuñez P., Vernier P.,

jos-index-v13-n2-2004-item16-page29.txt

Title: The Bead Unbaffled

Author: Flom, Gary; Heffelfinger, Totton

Summary: Article focuses on the history and use of the abacus, with examples of addition, subtraction multiplication and division.

Keywords: Abacus, Roman hand abacus, bead abacus, Chinese abacus, suan pan, soroban, stschoy, abacus use

jos-index-v13-n2-2004-item17-page42.txt

Title: An 1880 American Slide Rule for Students

Author: Wyman, Tom

Summary: Article describes a basic slide rule made by Stephens & Company in 1881 that was designed especially for carpenters and joiners. Excerpts from the accompanying manual are included.

Keywords: D. H. Stephens & Company, Riddell R., carpenter, joiner, slide rule for students

jos-index-v13-n2-2004-item18-page42.txt

Title: The Slide Rule and the Steam Engine Indicator

Author: Babcock, Bruce E.

Summary: Article describes how, near the end of the 18<sup>th</sup> century, advances in the use of slide rule for manipulating data were paralleled by advances in the use of devices for collecting data. One of the instruments that played a major role in the need for accurate data was known as an engine analyzer. The workings of the indicators are described.

Keywords: James Watt's Indicator, Macnaught's Indicator, Richard's Indicator, Southern J., Thompson Indicator, Bushnell Indicator, Simplex Indicator, Tabor Indicator, horsepower, K&E Duplex 4135, K&E Power Computing Slide Rule, Cajori, Robertson-Thompson indicator, Hudson's Horsepower Computing Scale,

jos-index-v13-n2-2004-item19-page55.txt

Title: A. M. Stephenson and His Adder (1873)

Author: Otnes, Bob

Summary: Article gives the history, as it is known, of Archibald M. Stephenson and his mechanical adding machine.

Keywords: Stephenson A M, Stephenson Adder, adding machine

jos-index-v13-n2-2004-item20-page61.txt

Title: The Calculator of Claude Perrault

Author: Otnes, Bob; Venetsianos, Pano

Summary: This article is the first in a series on the subject of "slide bar" adders or calculators. This includes a translation (from French) of a 1700 work on Perrault's work.

Keywords: Perrault Adder, Kummer, Young, Fowler, Troncet, Rhabdological Abacus, Perrault C,

jos-index-v13-n2-2004-item21-page63.txt

Title: A Memorable Slide Chart

Author: Zeldes, Nathan

Summary: Reminiscences by the Author: on a slide chart he used in the 1960s while building his own radio gear.

Keywords: Allied Coil Winding Calculator, Allied Radio Corporation, Perrygraf Company

## Vol. 14, No. 1, Spring 2005

jos-index-v14-n1-2005-item1-page1.txt

Title: Computer History Museum: The Site of Oughtred Society's Annual Meeting

Author: Wyman, Tom

Summary: Review of the 15<sup>th</sup> Annual Meeting of the Oughtred Society

Keywords: Computer History Museum,

jos-index-v14-n1-2005-item2-page1.txt

Title: Announcing: The Oughtred Society Award and Call for Nominations

Author: van Poelje, Otto E

Summary: Rollout of the Oughtred Society Award, which will be presented each year to someone who has made outstanding contributions to the community involved with slide rules and historical calculating instruments at large.

Keywords: Oughtred Society Award

jos-index-v14-n1-2005-item3-page2.txt

Title: Dutch Circle Has Expanded in Focus and Name

Author: van Poelje, Otto E

Summary: Name change to Dutch Circle for Historical Calculating Instruments (Kring Historische Rekeninstrumenten)

Keywords: Kring, Dutch Circle

jos-index-v14-n1-2005-item4-page2.txt

Title: Letter from Otto van Poelje

Author: van Poelje, Otto E.

Summary: Comments about the author's article "Diagonals and Transversals: Magnifying the Scale"

Keywords: Kring, Dutch Circle

jos-index-v14-n1-2005-item5-page2.txt

Title: Book Review -

Author: Borchers, Brian

Summary: Review of book *When Computers Were Human* by David Alan Grier

Keywords: Grier D.A.,

jos-index-v14-n1-2005-item6-page3.txt

Title: The Oughtred Society Swap Sheet is Now Online

Author: Flom, Gary

Summary: Article outline how to access the swap sheet

Keywords: Oughtred Society Swap Sheet,

jos-index-v14-n1-2005-item7-page3.txt

Title: Article of Interest in the Current Issue Bulletin of the SIS

Author: Editor

Summary: Article outlines several articles of interest to JOS readers in the Bulletin of the Scientific Instrument Society

Keywords: Bulletin of the Scientific Instrument Society

jos-index-v14-n1-2005-item8-page4.txt

Title: How Slide Rules Won a War

Author: Green, Alex E. S.

Summary: This article is a supplement to a previous JOS article by the same author: that gave technical details about a two-dimensional programmable slide rule system. Author: describes purpose-made slide rules to solve military problems in WWII

Keywords: Firing error indicator, WWII, military slide rules, LeMay C, Offset Bombing Computer, Bomb Plot Computer, Force and Load Computer, Radar Resolution Computer, Turn Computer, Shoran Computer, Teller E., Operation Olympic, Atomic Bomb,

jos-index-v14-n1-2005-item9-page12.txt

Title: Slide Rules in the Classroom –An Anecdotal Report

Author: Huff, Paul R.

Summary: The use of slide rules in high school to reinforce understanding of some of the basic mathematical rules for logarithms in an interesting and fun way.

Keywords: High School uses, teaching slide rule,

jos-index-v14-n1-2005-item10-page14.txt

Title: Getting Hooked on Slide Rule – A Classroom Tale

Author: Rutzen, Dagmar

Summary: The use of slide rules in seventh grade to strengthen math skills.

Keywords: strengthen math skills, teaching slide rule,

jos-index-v14-n1-2005-item11-page16.txt

Title: Non-logarithmic Slide Rules

Author: Sangwin, Christopher J.

Summary: The article describes how slide rules capable of multiplying two numbers can be designed not using logarithms.

Keywords: Nelson's rule, non-logarithmic slide rule,

jos-index-v14-n1-2005-item12-page18.txt

Title: Hemmi's 50-Centimeter Slide Rules

Author: Salomon, Warren

Summary: The article lists and describes ten models and their variants, which is the entire known line of Hemmi's commercially available 50cm slide rules. JOS Plus publication

Keywords: Hemmi, 50cm slide rule, simplex rules, Hemmi modes 50-20, Hemmi models 70, 70b, 70c, 70d, 96, 154, 200, 201, 275, 275a, 279, 279a, 279b, 2670,

jos-index-v14-n1-2005-item13-page28.txt

Title: The K&E 4110 Power Trig Slide Rule Revisited

Author: McCoy, Clark

Summary: Article builds on an earlier JOS paper (JOS 2:1 1993) by Osborne I. Price on the K&E Power Trig slide rule no. 4110.

Keywords: K&E Power Trig 4110, Annapolis Slide Rule, Kells L. M., Kern W. F., Bland J. R., Tyler J.,

jos-index-v14-n1-2005-item14-page30.txt

Title: Adriaen Vlacq and Ezechiel de Decker: Dutch Contributors to the Early Tables of Briggsian Logarithms.

Author: van Poelje, Otto E.

Summary: Article describes the contribution of Adriaen Vlacq and Ezechiel de Decker to the early Briggsian logarithmic tables.

Keywords: logarithmic tables, Gunter E., de Decker E., Vlacq A., Napier's bones, Briggs H., Napier J., Arithmetica Logarithmica, Canon Triangulorum, Trigonometria Britannica, Logarithmorum Chilias Prima,

jos-index-v14-n1-2005-item15-page41.txt

Title: On the Evolution of K&E Vector Slide Rules

Author: Hughes, Richard Smith

Summary: Article follows the evolution of K&E's first vector slide rule in the 1920s to the end of production in 1972

Keywords: vector slide rule, K&E 4093-3, K&E 4083-3, McCoy C.,

jos-index-v14-n1-2005-item16-page45.txt

Title: Don't Panic, Nothing Can Go Wrong, Go Wrong, Go Wrong...

Author: Zowtiak, John M.

Summary: Reminiscences of an engineer who needed to rely on his slide rule during and Engineer-In-Training (EIT) exam when his electronic calculators failed.

Keywords: Engineer-In-Training, EIT, trig table,

jos-index-v14-n1-2005-item17-page46.txt

Title: The Schnellkalkulator System Block: A Mechanical Nomographic Table

Author: Rudwoski, Werner H.

Summary: Article describes the workings of a Schnellkalkulator (quick calculator), a mechanical nomographic device, used to determine the cutting time of machine tools.

Keywords: nomographs, nomography, Schnellkalkulator (quick calculator), System Bloch, Hahn & Kolb, machine tools, Bloch G,

jos-index-v14-n1-2005-item18-page51.txt

Title: A Short History of the Festus Manufacturing Company and its successor, the Acu-Rule Manufacturing Company, Makers of the Acu-Rule and ACUMATH Slide Rule

Author: Keane, George E.

Summary: Article describes the history of the Festus Manufacturing Company which became the Acu-Rule Manufacturing Company

Keywords: Festus Manufacturing Company, Acu-Rule Manufacturing Company, Acumath slide rule, Slide Rule and Scale Manufacturing Co.,

jos-index-v14-n1-2005-item19-page55.txt

Title: Slide Rules with Hyperbolic Functions

Author: Robinson, William K.

Summary: Article describes the history of hyperbolic functions and the slide rules with hyperbolic scales.

Keywords: Kremer G., Mercator G., Riccati V. R., de Foncenex D., Lambert J. H., electrical engineer, hyperbolic functions, K&E 4093-3, K&E 4083-3, Patrick Mark IV, Hemmi 153, Aristo 0972, Graphoplex 691a, Reiss 3227, Flying Fish 1200, Pickett N4-p, Blundell JV56 Multi-Log Vector Duplex,

jos-index-v14-n1-2005-item20-page 63.txt

Title: The Aristo Scholar Series

Author: Mosand, John

Summary: Article describes the history of Aristo Scholar series of slide rules during the period 1948-1975

Keywords: Aristo, Aristo Scholar, Aristo 902; Aristo 0906LL, Aristo 90183

jos-index-v14-n1-2005-item21-page 64.txt

Title: Journal of The Oughtred Society Guidelines for Author's

Author: editor

Summary: List of guidelines for Author's

Keywords: Journal of the Oughtred Society, Author: guidelines

## Vol. 14, No. 2, Fall 2005

jos-index-v14-n2-2005-item1-page2.txt

Title: President's Message

Author: Wyman, Tom

Summary: Outlined the accomplishments of the Oughtred Society in the past year.

Keywords: Slide Rule Reference Manual, Oughtred Society Swap Sheet, redesigned brochure,

jos-index-v14-n2-2005-item2-page2.txt

Title: Book Reviews

Author: Borchers, Brian; Otnes, Bob

Summary: Three books were reviewed. *A Treatise of Mathematical Instruments* by John Robertson, *Searching for 18<sup>th</sup> - and 19<sup>th</sup>-Century Patents on the Patent Office Website* by P. E. Stanley and *Tides: A Scientific History* by David Edgar Cartwright.

Keywords: Cartwright. D. E., Robertson J., Stanley P.E.

jos-index-v14-n2-2005-item3-page3.txt

Title: Mr. K. Kasper – In Memoriam

Author: Schuitema, IJzebrand

Summary: Obituary of K. Kasper

Keywords: Obituary, Kasper K.

jos-index-v14-n2-2005-item4-page3.txt

Title: Prosthaphaeresis

Author: Borchers, Brian

Summary: The word prosthaphaeresis comes from the Greek words for addition and subtraction. It is a little known method for performing multiplication and division with table lookups and additions and subtractions

Keywords: Prosthaphaeresis.

jos-index-v14-n2-2005-item5-page5.txt

Title: UK Slide Rule Circle Sponsors Well-Attended International Meeting, IM 2005

Author: Wyman, Tom

Summary: Overview of the 11<sup>th</sup> International Meeting of Slide Rule Collectors, held in Cambridge, England October 21<sup>st</sup> and 22<sup>nd</sup>, 2005

Keywords: UK Slide Rule Circle, International Meeting of Slide Rule Collectors

jos-index-v14-n2-2005-item6-page5.txt

Title: The Oughtred Society East Coast Meeting, November 11-13, 2005

Author: Wyman Tom; Gotlib, Louis; Chamberlain, Ed

Summary: Overview of the Oughtred Society East Coast meeting at MIT Museum in Cambridge, MA.

Keywords: Oughtred Society East Coast Meeting, MIT Museum

jos-index-v14-n2-2005-item7-page6.txt

Title: Letters

Author: Shepherd, Rodger

Summary: Comments on an article by Otto van Poelje (JOS 13:2 2004) on design strategies for improving scale-reading precision. He expressed the need for better indexing of Journal of the Oughtred Society.

Keywords: scale-reading precision, indexing

jos-index-v14-n2-2005-item8-page7.txt

Title: The Oughtred Society Hall of Fame: Presentation of Awards and Fellowships

Author: van Poelje, Otto E.

Summary: Establishment of an Oughtred Society Hall of Fame. Fourteen members were inducted into the Hall of Fame and 38 elected as Fellows of the Oughtred Society

Keywords: Oughtred Society Hall of Fame,

jos-index-v14-n2-2005-item9-page9.txt

Title: The Oughtred Society Swap Sheet Online

Author: Flom, Gary

Summary: Rollout of the Swap Sheet on the Oughtred Society website

Keywords: Oughtred Society Swap Sheet

jos-index-v14-n2-2005-item10-page10.txt

Title: The Slide Rules of Reverend William Flower

Author: Wyman, Tom

Summary: Article describes the history and operation of the W. Flowers Project, a slide rule which was the most sophisticated and versatile slide rule that had been created in 1768.

Keywords: Flowers W., Officers Instrument, Artificers Instrument

jos-index-v14-n2-2005-item11-page15.txt

Title: The Kentish Slide Rule

Author: Schure, Conrad

Summary: Article describes the history and operation of a Kentish slide rule, which may be considered the ultimate early 19<sup>th</sup> century "engineering slide rule"

Keywords: Kentish T., Dring & Fage,

jos-index-v14-n2-2005-item12-page17.txt

Title: Archimedes –His Approach Towards Logarithms

Author: Holland, Peter

Summary: Author examines the way in which Archimedes may have introduced the basic idea of logarithms, as supported by his work in his Sandreckoner

Keywords: Archimedes, Sandreckoner

jos-index-v14-n2-2005-item13-page22.txt

Title: John Davis and Sons (Derby) Ltd.

Author: Barnes, Colin

Summary: The history of this firm, a supplier and manufacturer of scientific instruments, including of slide rules and which can be traced back 170 years, is outlined.

Keywords: Davis J., Dennert & Pape, celluloid slide rule, Dunlop-Jackson slide rule, Dr. Yokota's slide rule, Stelfox slide rule, Jakin's slide rule, Stokes rule, Davis slide rule, Vickers machine gun rule,

jos-index-v14-n2-2005-item14-page32.txt

Title: Designing Three Variable Slide Charts

Author: Lee, Leighton III

Summary: The author outlines a practical method rather than a highly mathematical technique, to solve engineering problems that have simple formulas but units of measure that have to be converted. This involves designing and building a slide chart with three variables.

Keywords: variable slide charts, design,

jos-index-v14-n2-2005-item15-page34.txt

Title: Aristo's Further Development of the Darmstadt System

Author: Mosand, John

Summary: The article discusses the design and development of Aristo's Darmstadt system of slide rules

Keywords: Darmstadt System, Aristo 967, 967D, 967 U, 0968, Aristo 0972 Hyperlog, Faber-Castell 1/54 Darmstadt,

jos-index-v14-n2-2005-item16-page36.txt

Title: The Navigation Scale, Improved by B. Dunn

Author: van Poelje, Otto E.

Summary: The author discusses the well-documented variant of the Gunter rule as developed in 1764 and 1772 by Benjamin Donn

Keywords: Donn B., Gunter rule, navigation, Donn rules,

jos-index-v14-n2-2005-item17-page43.txt

Title: Years become Shorter – Like the Logarithmic Distances on a Slide Rule

Author: Rudowski, Werner H.

Summary: The author muses over a possible parallel between our growing old and a logarithmic scale.

Keywords: logarithmic scales, aging

jos-index-v14-n2-2005-item18-page44.txt

Title: Other Men and Their Slide Rules

Author: Hopp, Peter

Summary: The author, inspired by the article *A Man and His Slide Rule – Tools for a Lifetime*, by Kate Matthews (JOS v13, n1 p54), was prompted to examine whether other collectors had similar collections and whether US collections differed from British or European collections. He focused on UK engineering professionals in the same time period.

Keywords: Stancey G., Tidy H., Whittle F., Wallis B., Edwards F. D., Jeans J., Cook G. H., Fessenden R.,

jos-index-v14-n2-2005-item19-page47.txt

Title: The Oughtred Society Slide Rule Reference Manual

Author: Hume, Ted

Summary: A brief description of a slide rule reference manual available from the Oughtred Society

Keywords: Oughtred Society Slide Rule Reference Book

jos-index-v14-n2-2005-item20-page48.txt

Title: A Decade After The End: A Slide Rule Instruction Book Published in 1984

Author: McFarland, David D.

Summary: The article discusses a new Russian language slide rule instruction book published in 1984, intended for technical people who would be performing actual calculations.

Keywords: Slide rule instruction book, HP-35 calculator, Khrenov and Vizirov rule book,

jos-index-v14-n2-2005-item21-page53.txt

Title: Thou Preparest a Table Before Me

Author: Kannenberg, Lloyd

Summary: The article suggests that mathematical tables are as obsolete and therefore as collectible as slide rules

Keywords: Logarithmic tables, Mathematical tables

jos-index-v14-n2-2005-item22-page54.txt

Title: The Keuffel & Esser Building in New York City

Author: Flom, Gary

Summary: The article reviews the history of the Keuffel & Esser Building at 127 Fulton Street in NYC, one of the best preserved and distinguished 19<sup>th</sup> century buildings in that city.

Keywords: Keuffel & Esser Building

jos-index-v14-n2-2005-item23-page57.txt

Title: Interview with Gerd Keuffel

Author: Flom, Gary

Summary: The article is the result of an interview with Gerd Keuffel, great-grandson of Wilhelm Johann Dietrich Keuffel, co-founder of the Keuffel & Esser Company

Keywords: Keuffel G.,

jos-index-v14-n2-2005-item24-page59.txt

Title: Chinese Vector Slide Rules

Author: Hughes, Richard Smith; Robinson, William K.

Summary: This article concentrates on the numerous Vector slide rules produced in China from the 1930s until the end of production in the 1980s.

Keywords: Chinese vector slide rules

jos-index-v14-n2-2005-item25-page63.txt

Title: The Crichlow Slide Rule

Author: Borchers, Brian

Summary: This article discusses the Crichlow circular slide rule, developed for computations arising in anti-aircraft artillery

Keywords: Crichlow R., circular slide rule, anti-aircraft slide rule

## Vol. 15, No. 1 Spring 2006

jos-index-v15-n1-2006-item1-page1.txt

Title: "Pioneers of the Oughtred Society

Author: Wyman, Thomas.

Summary: List of original members of the Oughtred Society

Keywords: Oughtred Society pioneers

jos-index-v15-n1-2006-item2-page2.txt

Title: The Oughtred Society Award 2006: Call for Nominations.

Author: van Poelje, Otto E.

Summary: Call for nominations for the Oughtred Society Awards

Keywords: Oughtred Society Awards

jos-index-v15-n1-2006-item3-page2.txt

Title: Hans Bethe: Physicist and Slide Rule User

Author: Editor

Summary: Obituary of Hans Bethe excerpted from the Economist.

Keywords: Bethe H.,

jos-index-v15-n1-2006-item4-page5.txt

Title: Politics, Poetry, and England's Customs and Excise.

Author: Wyman, Thomas

Summary: Discussion of Thomas Paine and Robert Burns and their lives as excise officers.

Photos of the slide rule and dipping rod used by British excise agents. Keywords: Thomas Paine, Robert Burns, Adam Smith, Alcohol content, gauging, tax collector, Customs and Excise, four-slide boxwood slide rule, Brannen rule, excise officers,

jos-index-v15-n1-2006-item5-page9.txt

Title: The Beginning Collector.

Author: Matthews, Kate

Summary: Discussion on buying and selling slide rules, valuation terms.

Keywords: value, price, television valuation, Nestler (23), A. Mann's slide rule

jos-index-v15-n1-2006-item6-page11.txt

Title: Slide Rules and Problematical Recreations.

Author: Wyman, Tom

Summary: Discussion of Litton Industries 1960s booklets entitled Problematical Recreations.

Keywords: Litton Industries, Problematical Recreations

jos-index-v15-n1-2006-item7-page12.txt

Title: Aristo Special Models.

Author: Mosand, John

Summary: History of Dennert & Pape/Aristo's 500 "special" slide rules. Some photos.

Keywords: Aristo, Valmet, Aristo 940 Stahlbeton System Göttsch, Charvos-Roos, Klawun, Wichmann, Ahrend, Cleveland Institute of Electronics, Christiani slide rule, Dennert & Pape, military, Lagermatten slide rule, Nautical-Astronomical Universal slide rule, Nelting R.

jos-index-v15-n1-2006-item8-page14.txt

Title: J.H. Bair's Adder.

Author: (No Author :).

Summary: Describes mechanical calculator with photo.

Keywords: Bair J.H., adder, Locke adder.

jos-index-v15-n1-2006-item9-page15.txt

Title: Slide Rules are...Music to My Ears.

Author: Rance, David G...

Summary: Collection of slide rules related to acoustic world of music.

Keywords: Acoustic rules, Faber-Castell, Scaling slide rule for organ pipes, system Rensch, Töpfer J.G., Rensch R., ESSO, Kodak, Bitzer, Blundell Harling, note tracker slide chart, P5731, Davies P, AXiS, IWA piano & harpsichord builders, TF 65/2, Taylor's formula, Fenner K, Petit & Fritsen, carillon builders aid for tone ranges, campanologists, St. Paulus & Petrus Church,, Alro, Lawrence Engineering Service, 9-K music transposer, George Lee Lawrence, Lawrence Slide Rule Company, Lawrence Engineering, Oxford University Press, musical slide rule, musical note calculator, Brice & Delineavant, musician's slide rule, Mechanical musicalc, Blundell Harling music slide charts (P3679, P5012, P5206, P5812), barber shop harmony calculator

jos-index-v15-n1-2006-item10-page24.txt

Title: The Demise of the Slide Rule.

Author: Wyman, Tom

Summary: Newspaper column from 1982 about slide rules.

Keywords: slide rule demise

jos-index-v15-n1-2006-item11-page25.txt

Title: A "Universal" Stadia Slide Rule: the Shanghai Slide Rule Factory Model Number 1005.

Author: Hughes, Richard Smith

Summary: Discussion of the Stadia slide rule, its use and the model 1005 made by the Shanghai Slide Rule Factory, with photos.

Keywords: Kissam P., Kissam Stadia K&E (4143 or 68-1486), K&E (4100), civil engineering, Sun Hemmi, Shanghai Slide Rule Factory (1005).

jos-index-v15-n1-2006-item12-page28.txt

Title: The Spring Design Slide Rule Calculator.

Author: Konshak, Michael.

Summary: Discussion of spring design slide rules, with photos.

Keywords: Wallace Barnes/ASC, Wallace Barnes Slide Charts, torsion springs, Associated Spring Corp (ASC), Connecticut Spring Corp.(CSC), spring data calculator, J.B. Carrol Company, Pickett (1025, 1072, 1090-ES, 1100), Acu-rule, Acumath, Conner Spring Corp. (1090-ES), ASC Helical Spring Design Computer. M.H. Mear & Co. (circular), K&E Bellville Spring Washer Computer (BSWC), K&E (68-1892 K12), Analon (68-1400).

jos-index-v15-n1-2006-item13-page36.txt

Title: China Paper Face Slide Rules – K & E Knockoffs.

Author: Castleberry, Clay

Summary: Approaches used in China in the 1940s-1960s to copy the Keuffel & Esser 4083-3 Log Log Duplex Vector without violating the copyrighted original. Keywords: the Keuffel & Esser (4083-3), China Paper Face Rule, black scales, United Instrument Factory, Lixue Slide Rule Craft Group, Liu Quiglin

jos-index-v15-n1-2006-item14-page37.txt

Title: Lologs and Illologs.

Author: Otnes, Bob

Summary: Conversations with Joseph E. Deitzgen on the Deitzgen log-log slide rule. Discussion of E. Chappell's book "Five-Figure Mathematical Tables, 1915", with appendix of chronology.

Keywords: Deitzgen E., Deitzgen J.E., Chappell's Tables, cologs, illogs, lologs, John Davis & Son, K&E Deci-Lon (68 1100).

jos-index-v15-n1-2006-item15-page39.txt

Title: Richardson and Gilson.

Author: Konshak, Michael

Summary: History of the relationship between George W. Richardson (Richardson Rule Works) and Claire A. Gilson (Gilson Slide Rule Company).

Keywords: Richardson G. W., Gilson C. A., International Correspondence School (I.C.S.), Richardson Direct Reading Slide Rule, Pantocrat, keyholes, celluloid, aluminum, stainless steel, Richardson Rule Works (1776, 1812, 1865, 1917), J.H. Weil and Co., Gilson Slide Rule Company models, Midget, Binary, Atlas, circular slide rule, Slide Rule Simplified, Fagen D.W., Post, Dietzgen, Dieterich-Post.

jos-index-v15-n1-2006-item16-page44.txt

Title: Tens' Complement Arithmetic.

Author: Borchers, Brian

Summary: Discussion of the numerical labels on many mechanical adding machines and how to use them to carry out subtraction using tens complement arithmetic, with photo.

Keywords: Felt and Tarraant Comptometer, Hoffritz Adder.

jos-index-v15-n1-2006-item17-page45.txt

Title: Reverse Polish Notation for Electronic Calculators.

Author: van Poelje, Otto E..

Summary: Discussion of the use of Reverse Polish Notation in computers and calculators.

Keywords: Lukasiewicz J., Reverse Polish Notation (RPN), Hewlett-Packard (HP-25, HP-28, HP-35, HP-48), Oughtred W., Gunter E., Forth, PostScript, Friden EC-130, Texas Instrument (SR-50), Algebraic Operating System (AOS), Sanyo Scientific Calculator (CZ-2901)

jos-index-v15-n1-2006-item18-page48.txt

Title: Anecdotes about Logarithms.

Author: Rudowski Werner H.

Summary: Two stories from H. Ahrens booklet *Mathematiker-Aneckdoten*.

Keywords: Kästner A.G., Rabener W., Rabener G., Fischer K., Vega's Tables of Logarithms.

jos-index-v15-n1-2006-item19-page49.txt

Title: A Former Slide Rule Collector's Tale.

Author: Hume, Ted.

Summary: A memoir of the Author's interest in slide rule collection. He describes his early interest in Post slide rules.

Keywords: Post slide rules,

jos-index-v15-n1-2006-item20-page50.txt

Title: A Pocket Slide Rule for Electronic Engineers: the Tianjin 6508.

Author: Hughes, Richard Smith.

Summary: Discussion of the only pocket slide rule known to the author to be designed for electrical engineer, with photos.

Keyword: K&E 4139 Cooke Radio, Pickett N-16, Sun Hemmi (266), Scientific Instruments (1580), Tianjin (6504 & 6508), Tianjin Slide Rule Factory.

jos-index-v15-n1-2006-item21-page53.txt

Title: The Popular Post Versalog Slide Rule.

Author: Hume, Ted.

Summary: Discussion of the Post Versalog 1460, the favorite slide rule of members of the International Slide Rule Group.

Keywords: Post Versalog 1460, 1461, Hemmi (258), Hughes-Owens (1777) Versalog, Geotec (341-3010-Type 1b & 341-3012 –Type II), Post Versalog II), Teledyne-Post Versalog II (44CA-600).

jos-index-v15-n1-2006-item22-page56.txt

Title: The Calculator of Claude Perrault.

Author: Venetsianos, Panagiotis; Otnes, Bob.

Summary: Discussion of “slide bar” adders and calculators and how they operate.

Keywords: Perrault Adder, Kummer, Young, Fowler, Troncet, Locke, McClellan, Perrault C., Coignard J.B., Rhabdological Abacus, (CNAM).

jos-index-v15-n1-2006-item23-page58.txt

Title: The Flying Fish 1018 Gudermannian Slide Rule.

Author: Hughes, Richard Smith.

Summary: Discussion of the Chinese Shanghai Slide Rule Factory Flying Fish 1018 slide rule and its use, photos included...

Keywords: Sun Hemmi (153), Shanghai Slide Rule Factory Flying Fish 1018 Gudermannian.

jos-index-v15-n1-2006-item24-page61.txt

Title: Some Remarks on Logarithms Apropos to Their Tercentenary.

Author: D'Ocagne, M.

Summary: Discussion of the discovery of logarithms by John Napier and how they are used.

Keywords: Logarithms, Kepler, Napier J., Napierian, Briggs H., Vlacq, Wingate, Gardiner, Callet, Andoyer, Wolfram, Sharp, Prony, Schentz,

## Vol. 15, No. 2 Fall 2006

jos-index-v15-n2-2006-item1-page1.txt

Title: Congratulations Walter Shawlee!

Author: Wyman, Thomas.

Summary: Walter Shawlee II received the Oughtred Society Hall of Fame 2006 for his activities over the last ten years in attracting over half a million visits to his web site Slide Rule Universe.

Keywords: Oughtred Society Hall of Fame, Slide Rule Universe, Shawlee W. II

jos-index-v15-n2-2006-item2-page1.txt

Title: A Short List of Slide Rule Exhibits and Other Public Activities

Author: Babcock, Bruce

Summary: A list of some 15 events of slide rule demonstrations from 1999 through 2005, who gave the demonstrations, and the venue of the exhibit.

keywords: Babcock B., Castleberry C., Chamberlain E., Crowther P., De Cesaris, R., Flom G., Hans M., Kerr W., Maack D., McFarland D., Otnes R., Wyman T., Rance D., Rudowski W., Rodger R.

jos-index-v15-n2-2006-item3-page3.txt

Title: The Oughtred Society Survey 2006 - Summary

Author: van Poelje, Otto; McCoy, Clark; Matthews, Kate

Summary: A summary of the 2006 Oughtred Society survey.

Keywords: Oughtred Society Survey Summary

jos-index-v15-n2-2006-item4-page4.txt

Title: The Future of Slide Rule Collecting

Author: Wyman, Thomas

summary: The author outlines ways to increase interest in slide rule collecting by holding slide rule exhibits, and gives examples of how past exhibits led to the formation of the Oughtred Society.

Keywords: Slide rule collecting, slide rule exhibitions,

jos-index-v15-n2-2006-item5-page8.txt

Title: Pocketbook of the Gauge Marks by Panagiotis Venetsianos

author: van Poelje, Otto E.

Summary: This booklet, reviewed by the author, describes the "gauge marks" or constants imprinted on slide rules that are immediately available for calculations. This booklet describes the various gauge marks found on slide rules and a table for gauge mark names and their numerical values.

Keywords: Gauge marks, Venetsianos P.

jos-index-v15-n2-2006-item6-page9.txt

Title: Is This The Mysterious Midget Fuller?

Author: Rudowski, Werner H.

Summary: Author describes a handmade Fuller-style slide rule and how it differs from a standard Fuller and other spiral slide rules.

Keywords: Midget Fuller, Fuller Slide Rule, Otis King, Smith R. H., spiral slide rule

jos-index-v15-n2-2006-item7-page10.txt

Title: A 1595 Book Annotated by Oughtred is Offered for Sale

Author: Wyman, Tom

Summary: Article describes a book entitled "*One of the earliest works on bookkeeping annotated by William Oughtred*" written by Nicolas Petri and "Englished" by William Phillip and printed in London in 1596

Keywords: Oughtred W., Petri N., Phillip W., bookkeeping

jos-index-v15-n2-2006-item8-page11.txt

Title: Letters to the Editor: HP Calculators

Author: Maor, Eli

Summary: Responds to an article by Otto E. van Poelje on the problems of early HP calculators. He thought that cost was as much a problem as learning Reverse Polish Notation (RPN).

Keywords: van Poelje O. P., HP calculators, Texas Instrument, TI-25X, TI-89, TI-89, TI-92

jos-index-v15-n2-2006-item9-page11.txt

Title: Letters to the Editor: The CURTA and Sports Car Rallies

Author: Shepherd, Rodger

Summary: Outlines discussions with a former "navigator" of sports car rallies and why the Curta calculator was popular.

Keywords: Curta, sports car rallies,

jos-index-v15-n2-2006-item10-page11.txt

Title: News from the Dutch Circle, the "Kring"

author: van Poelje, Otto E.

Summary: Describes the activities of the Dutch slide rule "Circle" and their periodical, "the MIR"

Keywords: Dutch Circle, Kring, the Mir, Slide Rule Catalogue online,

jos-index-v15-n2-2006-item11-page12.txt

Title: Henry P. Aldinger, Jr. (1916-2006) an Appreciation

Author: Shepherd, Rodger

Summary: An obituary of Henry Aldinger and his contributions to the success of the Oughtred Society

Keywords: Aldinger H. P., Oughtred Society,

jos-index-v15-n2-2006-item12-page12.txt

Title: Alfred E. Busch 1914-2006

Author: Abstract from the New York Times

Summary: An obituary of Alfred E. Busch, former president of K&E

Keywords: Busch A. E., K&E,

jos-index-v15-n2-2006-item13-page13.txt

Title: John Brown's Book and Spiral Slide Rule

Author: Hopp, Peter M.

Summary: Describes the resolution of the confusion of whether there was one, two or three John Brown(e)s who were instrument makers.

Keywords: Brown J., Browne J., Cajori, spiral slide rule,

jos-index-v15-n2-2006-item14-page14.txt

Title: Locating the Center of Mass by Mechanical Means

Author: Sangwin, Christopher J.

Summary: Article discusses moment planimeters, mechanical devices with which it is possible to locate the center of mass of an irregular plane shape by mechanical and graphical means.

Keywords: moment planimeters, Roll Recording Wheel, Koizumi Linear Roller, Amsler Moment Planimeter, Integrator

jos-index-v15-n2-2006-item15-page19.txt

Title: Modeling the Difference Engines of Charles Babbage

Author: Robinson, Tom

Summary: Author describes efforts to build models of Babbage's Difference Engine's # 1 & #2 using Meccano, a child's educational construction system similar to Erector. He also discusses the methods of differences employed by Babbage

Keywords: Babbage, Difference Engine, Meccano

jos-index-v15-n2-2006-item16-page27.txt

Title: The Gauge Mark Booklet

Author: Venetsianos, Panagiotis

Summary: Author discusses the role of gauge marks on slide rules and outlines his organization of the plethora of gauge marks found, their meanings and the numbers associated with them.

Keywords: gauge marks,

jos-index-v15-n2-2006-item17-page30.txt

Title: The Oldest German Slide Rule

Author: Rudowski, Werner H.

Summary: Article describes a slide rule in a museum in Kassel, Germany that possesses a 1765-era ivory and silver rule purported to be the oldest existing slide rule manufactured in Germany

Keywords: German slide rule, ivory, Landgraf Karl, Partridge's Double Scale of Proportion, Gunter,

jos-index-v15-n2-2006-item18-page35.txt

Title: Aristo End Braces

Author: Mosand, John

Summary: This article relates the end braces used on 25 cm Aristo slide rules to the period of manufacture.

Keywords: Aristo, end braces, Dennert & Pape, plastic end braces,

jos-index-v15-n2-2006-item19-page37.txt

Title: System Wern Circular Slide Rule – A Collector's Dream Come True

Author: England, Gunnar

Summary: This is about slide rule collecting and a collector's dream come true. It is also about an interesting circular slide rule design, its development and background

Keywords: IWA 1638, System Wern ABC, Wern C., Wern G.

jos-index-v15-n2-2006-item20-page41.txt

Title: Slide Rules – Gone but Not Forgotten

Author: Wyman, Tom

Summary: Comments on a 2006 Scientific American article, *When Slide Rules Ruled*, by Cliff Stoll and the response to it about other slide rule memories

Keywords: Scientific American, slide rules

jos-index-v15-n2-2006-item21-page42.txt

Title: How Well Known Were Slide Rules in Germany, Austria and Switzerland Before the Second Half of the 18<sup>th</sup> Century?

Author: Rudowski, Werner H.

Summary: Brief overview of the history of the introduction of slide rules into Germany, Austria and Switzerland. Author suggests reasons why slide rule use was slower in these countries.

Keywords: Biler D. J. M., Leupold J., Scheffelt M.

jos-index-v15-n2-2006-item22-page50.txt

Title: Watch Your Ps and Qs – The Pythagorean Scales – Are They Worth the Effort?

Author: Hughes, Richard Smith

Summary: This article discusses the solution of the right triangle using Pythagorean scales.

Author compares using the “P” and “Q” scales on a variety of slide rules and their ease of use.

Keywords: Pythagorean Scales, Hemmi, K&E, Scientific Instruments 1570, Darmstadt P, Faber-Castell, Flying Fish 1003

jos-index-v15-n2-2006-item23-page58.txt

Title: Faber-Castell 2/84 and 2/84N Mathemas

Author: Hughes, Richard Smith

Summary: Author compares two Faber-Castell vector slide rules.

Keywords: Faber-Castell 2/84, Faber-Castell 2/84N Mathemas

jos-index-v15-n2-2006-item24-page62.txt

Title: A Woman and Her Slide Rule

Author: Maor, Eli

Summary: Author, responding to JOS articles which only describe men and their slide rules describes a woman engineer (his wife) who used her slide rule throughout her career

Keywords: Women, slide rule

jos-index-v15-n2-2006-item25-page63.txt

Title: How Long is One Foot?

Author: Rudowski, Werner H.

Summary: Author reviews the history of the length measurement, the foot, and describes how it was defined over time.

Keywords: linear measurement, foot – definition,

## Vol 16, No 1 Spring 2007

jos-index-v16-n1-2007-item1-page1.txt

Title: President's Message

Author: Wyman, Tom

Summary: Points covered were "Pano's Pocketbook of gauge marks, Beginner's slide rule kit, Salisbury Products division slide rules, and a list of meetings to be held in 2007.

Keywords: Beginner's slide rule, Pocketbook of gauge marks, Soper J.,

jos-index-v16-n1-2007-item2-page2.txt

Title: Editorial Comment

Author: Otnes, Bob

Summary: Comments on three articles in this issue on the development of slide rules in the 17<sup>th</sup> century and the importance of navigation to their development.

Keywords: Napier, Gunter, sliding Gunter

jos-index-v16-n1-2007-item3-page2.txt

Title: The Oughtred Society Award 1007: Call for Nominations

Author: van Poelje, Otto E.

Summary: A request that members submit nominations for the Oughtred Society Award.

Keywords: Oughtred Society Award

jos-index-v16-n1-2007-item4-page3.txt

Title: Announcement

Author: McCoy, Clark

Summary: Article informs the membership that the book by Joe Soper, *K&E Salisbury Products Division Slide Rules* on the later years of K&E enterprise at the Salisbury Products Division is now available for purchase.

Keywords: K&E Salisbury Products Division

jos-index-v16-n1-2007-item5-page3.txt

Title: Aaron Lerner – An Appreciation

Author: Gotlib, Louis

Summary: Reflections on the author's friendship with Aaron Lerner, an Oughtred Society member who recently passed away.

Keywords: Lerner A., slide rule collecting

jos-index-v16-n1-2007-item6-page5.txt

Title: The Sliding Gunter – Who Was its Inventor?

Author: Rudowski, Werner H

Summary: Article examines the use of the term "sliding Gunter" and proposes a definition

Keywords: sliding Gunter, Bissaker R., Partridge S., Leupold J.,

jos-index-v16-n1-2007-item7-page8.txt

Title: The Sliding Gunter – Reconstruction of the Partridge Scales

Author: van Poelje, Otto E.

Summary: This article will argue that Partridge described a scale configuration which is different from the Sliding Gunters that were described and produced later. Also includes a transcription of Chapter 1 of Partridge's book on the "Double Scale of Proportion"

Keywords: Sliding Gunter, Partridge S., Double Scale of Proportion,

jos-index-v16-n1-2007-item7-page8.txt

Title: The Sliding Gunter – Versions for Navigation at Sea

Author: van Poelje, Otto E.

Summary: This article compares 26 actual specimens of Sliding Gunters used in navigation, with additional information provided by four books about Sliding Gunters. Examples of the use of the Sliding Gunters in solving navigation problems are included along with photographs of examples.

Keywords: Sliding Gunter, Partridge S., Double Scale of Proportion, Robertson Rule, National Maritime Museum, National Museums of Scotland, Mackay A., van de Moolen S., Norie J.W., Bowditch N., Colson N., Moore J.H., Robertson J., Seller J., Norwood M., Navigational slide rule,

jos-index-v16-n1-2007-item8-page19.txt

Title: Tables of Quarter-Squares, Sociologic[al] Applications, and Contributions of George W. Jones

Author: McFarland, David D.

Summary: Tables of Quarter-Squares were once an alternative to logarithms for multiplication but their use declined around 1900. This article offers additional references, including examples of those tables and suggests some additional sources of their decline.

Keywords: Tables of Quarter-Squares, Jones G. W., mathematical tables, Campbell-Kelly M, Galton-Watson

jos-index-v16-n1-2007-item9-page26.txt

Title: Annual Meeting of the Oughtred Society, June 30, 2007

Author: Editor

Summary: Overview of Annual Meeting

Keywords: Oughtred Society meeting

jos-index-v16-n1-2007-item10-page27.txt

Title: Rules and Other Mechanical Calculating Devices in Aviation

Author: van Riet, Ronald

Summary: The article is an overview of the current use of E6B flight computers, still mandatory at every pilot's exam, both in the USA and elsewhere.

Keywords: aviation, E6B Flight Computer, Pooler's CRP, Aristo Aviat, Load Adjustors, Cessna Performance Computer, Wright R-9 Performance Computer, Simplified Flight Calculator, Dalton P,

jos-index-v16-n1-2007-item11-page33.txt

Title: Slide Rule Tie Bars

Author: von Jezierski, Dieter

Summary: Article gives an overview of Swank slide rule tie bars.

Keywords: Swank, slide rule tie bar, Vernon, circular flight slide rule tie bar,

jos-index-v16-n1-2007-item12-page36.txt

Title: On Cleaning a Slide Rule

Author: Wyman, Tom

Summary: The article explores some of the dangers of using cleaners on slide rules

Keywords: Goof Off, Goo Off, cleaning slide rules

jos-index-v16-n1-2007-item13-page37.txt

Title: The Faber-Castell 989 Komplex-Rechenplatte

Author: Hughes, Richard Smith

Summary: This article discusses the operation and limitations of the Faber-Castell 989 Komplex-Rechenplatte slide rule. JOS Plus article

Keywords: Faber-Castell 989 Komplex-Rechenplatte, oversized slide rule,

jos-index-v16-n1-2007-item14-page48.txt

Title: The Ganga Ram Slide Rule

Author: Schure, Conrad

Summary: This article relates to the second of Ganga Ram's slide rules which he patented in 1885

Keywords: Ganga Ram Slide Rule, Ram G., scanting of timber, J. Tree & Co., strains on trusses

jos-index-v16-n1-2007-item15-page50.txt

Title: John Brown, "Carpenters Rules..."

Author: Hopp, Peter

Summary: This article outlines some of the editions of relevant books by John Brown(e) found in various museum and university libraries.

Keywords: carpenter-rule, joint-rule, Gunters-line, Brown J.

jos-index-v16-n1-2007-item16-page52.txt

Title: The Report of the 2006 Survey Committee

Author: Matthews, Kate; McCoy, Clark; and van Poelje, Otto

Summary: Results of an Oughtred Society survey conducted in 2006.

Keywords: Oughtred Society survey

jos-index-v16-n1-2007-item17-page61.txt

Title: Genaille's Rods

Author: Schure, Conrad

Summary: Description of the use of Genaille-Lucas Rulers, a variation of the physical technique of Napier's Bones evolved in about 1885

Keywords: Napier's Bones, Genaille-Lucas Rulers,

jos-index-v16-n1-2007-item18-page62.txt

Title: John R. Dempster's RotaRule Model AA: A Masterpiece in the Art of Slide Rule Design

Author: Hughes, Richard Smith

Summary: The article discusses the mechanical design, scales and some background on John R. Dempster the person and a listing of known RotaRules in private collections

Keywords: Dempster RotaRule, Dempster J.R., Eugene Dietzgen Company

## Vol 16, No. 2 Fall 2007

jos-index-v16-n2-2007-item1-page1.txt

Title: IM 2007: The Dutch Excel Again!

Author: Wyman, Tom

Summary: Overview of the September 14<sup>th</sup> and 15<sup>th</sup> 2007 meeting of the Dutch Circle convened with the 13<sup>th</sup> Meeting of Collectors of Historical Calculation Instruments in Lelystad, Netherlands.

Keywords: Dutch Circle, Collectors of Historical Calculation Instruments

jos-index-v16-n2-2007-item2-page2.txt

Title: The Oughtred Society Hall of Fame – Presentation of the Oughtred Society for 2007

Author: van Poelje, Otto E.

Summary: Announcement of the winner of the Oughtred Society Award for 2007 – Rodney Lovett (UK)

Keywords: Oughtred Society Hall of Fame, Lovett, R.

jos-index-v16-n2-2007-item3-page2.txt

Title: Oughtred's Last Book

Author: Wyman, Tom

Summary: Discovery of the sale of an antiquarian book authored by William Oughtred.

Keywords: Oughtred W., Trigonometria,

jos-index-v16-n2-2007-item4-page3.txt

Title: The Nystrom Calculator – The First Patented American Slide Rule

Author: Schure, Conrad

Summary: Author describes his introduction to and search for a Nystrom Calculator for his collection. He outlines the history of John Nystrom and the evolution of the calculator, along with a description of its use.

Keywords: Nystrom Calculator, Nystrom J.,

jos-index-v16-n2-2007-item5-page8.txt

Title: Recollections of a Pickett Industries Employee

Author: Boardman, Allan

Summary: A former employee of the Pickett Industries slide rule company describes his experiences while working for Pickett in the 1950s.

Keywords: Pickett Industries, Pickett slide rule

jos-index-v16-n2-2007-item6-page10.txt

Title: Highlights of the A. J. Boardman Collection of Pickett Slide Rules

Author: McCoy, Clark

Summary: Description of the Pickett slide rule collection of Allan Boardman, a former employee of Pickett Industries. The collection mostly consists of slide rules randomly taken off of the production assembly lines for quality control purposes

Keywords: Pickett slide rules, Pickett model 2-T, 3-T, 4-T, Pickett 510-T –Business and Finance, Pickett Trainer Plastic, Pickett U.S. Air Force Aerial Photo slide rule, Pickett Model N904-ES, Pickett Circular Model 101C.

jos-index-v16-n2-2007-item7-page15.txt

Title: More About Slide Chart Devices

Author: Wyman, Tom

Summary: Article is a follow-up to the article "Slide Chart Calculators – A Modest Proposal" that appeared in the 2004 JOS

Keywords: Slide Chart Calculators, Omero, Life Assurance, horse racing, Stockulator

jos-index-v16-n2-2007-item8-page19.txt

Title: Another Aristo End Brace

Author: Mosand, John

Summary: Response to an earlier article in 2006 JOS on Aristo End Braces

Keywords: Aristo end brace

jos-index-v16-n2-2007-item9-page20.txt

Title: Quarter-Squares Revisited: Earlier Tables, Division of Labor in Table Construction, and Later Implementations in Analog Computers

Author: McFarland, David D.

Summary: Author outlines how Quarter Squares were in use both earlier and more recently than the era 1876 to 1951 he outlined in a previous JOS article (JOS 16:1 19-26)

Keywords: Quarter-Squares, Laundry S.L., Leslie J., Glaisher, Voisin, cuneiform tables,

jos-index-v16-n2-2007-item10-page26.txt

Title: Benford's Logarithmic Distribution of Digits

Author: van der Salm, Simon A. M.

Summary: Discussion of the non-uniformly distributed leading digit when logarithmic calculations are carried out on a slide rule.

Keywords: non-uniformly distribution of digits, Newcomb-Bedford formula, Bedford F.,

jos-index-v16-n2-2007-item11-page32.txt

Title: Stadia or Tacheometric Slide Rules, Part II

Author: Hughes, Richard Smith

Summary: Discussion of a specialized slide rule, the Stadia or Tacheometric vector slide rule, and a table of known examples. Author compares ease of use.

Keywords: Stadia slide rule, Tachometric slide rule, vector slide rule, Faber-Castell 4/38, 1/38, 67/38, Cox Stadia circular slide rule, Dempster Rotarule Model AA, KB Stadia circular 360, K&E N4000, N4001, N4143/1468, Aristo 0958,

jos-index-v16-n2-2007-item12-page42.txt

Title: The Gancher and Kodoma Adder

Author: Editor

Summary: Advertising photo and drawing of the Golden Gem Adder, patented by Kodama and Gancher

Keywords: Golden Gem Adder, Kodama N. H., Gancher A. I.

jos-index-v16-n2-2007-item13-page43.txt

Title: Leibniz and His Logarithmic Calculating Cylinder

Author: Rudowski, Werner H.

Summary: Article describes documents discovered by the author, proving that Gottfried Wilhelm Leibniz thought about logarithmical calculating devices as early as 1712

Keywords: Leibniz G. W., Clausthal-Zellerfeld H. B., Ripking M. B., Leibniz calculating cylinder, Ripking's Calculating Disk, Everard, Leadbetter, Coggeshall, Partridge, Leupold, Scheffelts, Biler

jos-index-v16-n2-2007-item14-page47.txt

Title: A "Mystery" Calculator from the Far North

Author: Otnes, Bob

Summary: Author describes an Exakta mechanical calculator in his collection that was made in Sweden

Keywords: mechanical calculator, Exakta,

jos-index-v16-n2-2007-item15-page48.txt

Title: Arithmetic with Roman Numerals

Author: Kennedy, James G.

Summary: The article describes how the Roman system incorporates features permitting algorithms that make multiplication and division even easier than our place-value decimal system.

Keywords: Roman numerals, division, multiplication

jos-index-v16-n2-2007-item16-page49.txt

Title: Slide Rule Doggerel

Author: Matthews, Kate

Summary: Nine Old Nerds doggerel is reprinted

Keywords: slide rule doggerel

jos-index-v16-n2-2007-item17-page50.txt

Title: On Collecting, Preservation and Stewardship

Author: van Poelje, Otto E.

Summary: The slide rule collector's role as steward is emphasized: not only physical storage, restoration and maintenance of the objects involved, but also building and integrating knowledge about the collectibles, and sharing this with the public.

Keywords: slide rule collecting, stewardship, Venn diagram,

jos-index-v16-n2-2007-item18-page52.txt

Title: UKSRC

Author: Wyman, Tom

Summary: Discussion of the publications of the UK Slide Rule Circle, e.g. Skid Stick and Gazette, are impressive publications that, except for the latest additions, are available on-line and fully searchable.

Keywords: UK Slide Rule Circle (UKSRC), Skid Stick, Gazette

jos-index-v16-n2-2007-item19-page53.txt

Title: A Summary of Gauging Practices Employed by English Excise Officers

Author: Wyman, Tom

Summary: Discussion of the use of Gauging slide rules by English excise officers. Author reprints a 16-page instruction booklet on gauging and gauging instruments, *Cask-Gauging and Stock-Taking: Ullaging and Casting Rule Simply Explained* (~ 1850)

Keywords: Gauging slide rules, Ullaging and casting rule, Leadbetter C., L. Lumley & Co.,

jos-index-v16-n2-2007-item20-page62.txt

Title: My Engineering Tools

Author: Schweitzer, Bernie (as told to Otnes, Bob)

Summary: Author discusses slide rules gifted to the Oughtred Society by Dr. Schweitzer

Keywords: Spirule, the Spirule Company, the Smith Chart, Millimeter Wave System Calculator

## Vol. 17, No. 1 Fall 2008

jos-index-v17-n1-2008-item1-page1.txt

Title: The Oughtred Society's New Winter Meeting

Author: Wyman, Tom

Summary: Overview of the 2008 winter meeting held in Las Vegas, Nevada

Keywords: Oughtred Society, winter meeting

jos-index-v17-n1-2008-item2-page2.txt

Title: Boucher's Bouchers

Author: Schure, Conrad

Summary: Author focused on two specific, very early models: Boucher pocket calculators signed by the inventor and made by or for him.

Keywords: Boucher pocket-sized calculators, Alexandre Emile Marie Boucher, desk model, pocket-watch calculators, circular calculator,

jos-index-v17-n1-2008-item3-page5.txt

Title: Early Drawings of Logarithmic Scales by Gunter and Wingate

Author: van Poelje, Otto E.

Summary: Article describes some of the logarithmic scale drawings published by Wingate and others in the first half of the 17<sup>th</sup> century, in comparison to Gunter's original scales. The drawings of logarithmic scales by Gunter and Wingate mark the breakthrough transition from logarithmic tables to the scales that were to become the essence of later slide rules.

Keywords: Napier's logarithms, Briggs' 10-based logarithm tables, Edmund Gunter, Edmund Wingate's scales

jos-index-v17-n1-2008-item4-page10.txt

Title: A New Comprehensive Index for the Journal of the Oughtred Society

Author: Editors

Summary: Information on a comprehensive index for all the issues of the Journal of the Oughtred Society available at [www.oughtred.org](http://www.oughtred.org)

Keywords: JOS index, Dreikorn B.A.

jos-index-v17-n1-2008-item5-page11.txt

Title: An Update on Log-Log Slide Rules Before 1910

Author: Wyman, Tom; Otnes, Bob

Summary: The purpose of this paper is to collect and republish earlier papers relevant to the early history of log-log slide rules

Keywords: Log-log slide rules, Roget P.M, Watt J., Kendall J., Baxandall D., Pugh J., Dennert & Pape, Keuffel & Esser, Yokota Rule,

jos-index-v17-n1-2008-item6-page15.txt

Title: Description of a New Instrument for Performing Mechanically the Involution and Evolution of Numbers

Author: Roget, Peter M.

Summary: Reprint of an article published in 1815 (Philosophical Transactions 1815, Part I, pp9-29) and discussed in the previous JOS article (JOS Vol 17, No 1, 2008, pp11-15)

Keywords: Roget P.M., Pascal, Gunter,

jos-index-v17-n1-2008-item7-page22.txt

Title: Slide Rules for Rocketeers

Author: Konshak, Michael

Summary: A delightful reminiscence by the author of rocket clubs of the 1960s. He describes how slide rules were used in rocketry clubs to confirm the altitude reached by the model rockets using the S and T scales with an example of how the calculations were made.

Keywords: National Association of Rocketry (NAR), [www.nar.org](http://www.nar.org), Estes Industries, Lawrence Slide Rule, Frederick Post 1447, Sun-Hemmi,

jos-index-v17-n1-2008-item8-page28.txt

Title: A Letter of 1638 From William Oughtred to Elias Allen

Author: Hopp, Peter; Otnes, Bob (Editors)

Summary: The editors reproduce a letter from William Oughtred, the inventor of the slide rule, to Elias Allen, the premier instrument maker of the 17<sup>th</sup> century, in which he describes an improved version of the cross staff that may also be worked as a slide rule.

Keywords: Oughtred W., Allen E., letter,

jos-index-v17-n1-2008-item9-page30.txt

Title: Notes on an Excerpt from Oughtred's Book, Version of 1660

Author: Editors

Summary: This material is intended to supplement the previous transcription and clarification by Peter Hopp of an important letter from William Oughtred the mathematician to Elias Allen his instrument maker.

Keywords: Oughtred W., Allen E., letter,

jos-index-v17-n1-2008-item10-page31.txt

Title: The Declaration of the Two Rules for Calculation

Author: Oughtred, William

Summary: Excerpt from The Circles of Proportion and the Horizontall Instrument & c, 1660 pp241

Keywords: Oughtred W., circular slide rule

jos-index-v17-n1-2008-item11-page32.txt

Title: Appendix

Author: Hopp, Peter M.

Summary: Notes on the transcription of letter from William Oughtred to Elias Allen (JOS Vol. 17, No. 1 pp28-30

Keywords: Oughtred W., Allen E., Macclesfield Collection

jos-index-v17-n1-2008-item12-page33.txt

Title: A Missing Gilson Midget?

Author: Castleberry, Clay

Summary: Author describes a recently acquired Type I. version II, a paper-faced on steel that may be previously undescribed.

Keywords: Aldinger H., Gilson Midget, Chamberlain E., paper-faced Midget,

jos-index-v17-n1-2008-item13-page34.txt

Title: Notes on Mechanical Fourier Analyzers

Author: Otnes, Bob

Summary: An overview of some of the best known mechanical Fourier Transform harmonic analyzers which describes how they work.

Keywords: Fourier J.B.J., Lord Kelvin's Tide Prediction System, Henrici O., Henrici Harmonic Analyzer, Stanley Harmonic Analyzer, Yule, Mader Ott Analyzer, planimeters

jos-index-v17-n1-2008-item14-page42.txt

Title: The Keuffel & Esser Roylance 4133 Electrical Slide Rule

Author: Hughes, Richard Smith

Summary: Article describes how the K&E Roylance 4133 Electrical slide rule can be used to calculate resistance for a transmission line length and temperature, the weight of copper wire, the wire diameter and cross sectional area and the voltage drop for a known current.

Keywords: K&E Roylance 4133 Electrical slide rule, McCoy C.,

jos-index-v17-n1-2008-item15-page46.txt

Title: REED Riddle Solved!

Author: Rance, David G.

Summary: Author describes Service Slide Rule Company, an Australian company that manufactured slide rules out of local wood in the post WWII era

Keywords: Reed J.G., Service Slide Rule Company, Service Electro slide rule, Service Reed slide rule, Nagaoka's coefficient

jos-index-v17-n1-2008-item16-page52.txt

Title: Circular Slide Rules with Very Long Scales

Author: Chamberlain, Edwin J.

Summary: Article describes the three types of circular long scale slide rules, how their effective length is determined and the relative precision of each type. The history of the Long Scale circular slide rule, going back to William Oughtred, is also outlined.

Keywords: Atlas Spiral slide rule, Courvoisier Cercle á Calculs, Montaque Worman Concentric Scale Slide Rule, Lilly Improved Spiral Slide Rule, Sexton Companion Spiral Slide Rule, ARC Extended Scale Slide Rule, Gilson Atlas Spiral Slide Rule, Fowler Long Scale Calculator, Dempster RotaRule, Ross spiral slide rule, Thacher slide rule, Oughtred W., Delamain R., Thomas Brown Spiral Slide Rule, Richard Delamain's Mirifica Logarithmoru' Projectio Circularis, John Brown Spiral Slide Rule, Henr Sutton Spiral Slide Rule, William Milburne Spiral Slide Rule, Henr Sutton Spiral Slide Rule, Facini Nu. De Logaritmi, Adams Spiral Slide Rule, Nicholson Spiral Slide Rule, Fearnley's Universal Calculator, Dixon Combined Circular, Spiral, Multi-Index Slide Rule, Lilly Improved Spiral Slide Rule,

## Vol. 17, No. 2 Fall 2008

jos-index-v17-n2-2008-item1-page1.txt

Title: IM 2008 a Resounding Success

Author: Wyman, Thomas

Summary: Overview of the 14<sup>th</sup> International Meeting of Slide Rule Collectors (2008) at Royal Leamington Spa (UK). Proceedings of the meeting are available

Keywords: I M S R C (2008), Ln Scale, Artillery Slide Rules, Bissaker Rule, Alcoholmeters, Samuel Pepys, Bevan Slide Rule

jos-index-v17-n2-2008-item2-page2.txt

Title: My Collection Has A New Home

Author: Schuitema, IJzebrand

Summary: The author describes the journey he took to find a permanent home for his slide rule collection, finally choosing the Arithmeum Museum in Bonn Germany.

Keywords: Arithmeum Museum,

jos-index-v17-n2-2008-item2-page4.txt

Title: In Memoriam: Osborne Price (Sept. 30 1930-June 3, 2008)

Author: Editors

Summary: Obituary of Osborne Ingle Price, one of the original founding members of the Oughtred Society

Keywords: Price O.I.,

jos-index-v17-n2-2008-item3-page5.txt

Title: On A Mystery Slide Rule from the MIT Museum K&E Cabinet

Author: Hughes, Richard Smith

Summary: Author determined that the "Mystery" slide rule, outlined in an earlier JOS publication (JOS Vol 14 No 1 P11) was a slide rule used for surveying. It was an exact copy of a J. Kern Aarau Tacyheometric slide rule.

Keywords: MIT Mystery slide rule, K&E, surveying slide rule, K&E Statia 4100

jos-index-v17-n2-2008-item4-page6.txt

Title: Sonne's Circular Slide Rule

Author: van Jeziarski, Dieter

Summary: The author outlines the origin and history of Eduard Sonne's circular slide rule and describes its use.

Keywords: Sonne E., circular slide rule,

jos-index-v17-n2-2008-item5-page9.txt

Title: The Oughtred Society Hall of Fame

Author: Editors

Summary: Three Oughtred Society members, Otto van Poelje, Joe Soper and Panagiotis (Pano) Venetsianos, have been honored by the Oughtred Society Awards Committee for their outstanding contributions to the world community involved with slide rules and historical calculating instruments.

Keywords: Oughtred Society Hall of Fame, Soper J., van Poelje O., Venetsianos P.

jos-index-v17-n2-2008-item6-page10.txt

Title: On Abaci of Every Kind

Author: Maor, Eli

Summary: Article outlines the history of the abacus with examples shown from the author's collection and photographs of larger examples.

Keywords: abacus, abaci, Chinese suan pan, Japanese soroban, Russian schoty,

jos-index-v17-n2-2008-item7-page16.txt

Title: Eli Maor's Latest Book

Author: Otnes, Bob (Reviewer)

Summary: The book *The Pythagorean Theorem* by Eli Maor is a pleasure for anyone with at least a high school education to read.

Keywords: Pythagorean Theorem, Maor E.

jos-index-v17-n2-2008-item8-page17.txt

Title: The Duplex Slide Rules of Faber-Castell

Author: van Jezierski, Dieter

Summary: Discussion of the development of the duplex slide rule by Faber-Castell and other German manufacturers and how it was influenced by the requirements of the American market and by K&E's patents and designs.

Keywords: K&E, duplex slide rules, Bissaker R., Partridge S., Dennert & Pape, Aristo, Nestler, A.W. Faber, Babcock B., Cox W., Nestler model 29, K&E Log-Log Decitrig, Aristo model 966, Dennert & Pape model DUFIX 955, Faber-Castell

jos-index-v17-n2-2008-item9-page22.txt

Title: Diarist Samuel Pepys and Slide Rules

Author: Wyman, Thomas

Summary: Samuel Pepys, a 17<sup>th</sup> century polymath and diarist, was interested in scientific instruments of the time, including slide rules, and engaged John Brown, a noted instrument maker, to make him a slide rule for measuring lumber. Article describes comments Pepys made in his diary about the slide rule and discusses the type of slide rule that Pepys could have possessed and use.

Keywords: Pepys S., Brown (e) J., Circular slide rule, carpenter's rule, Napier's Bones, Napier's calculating rods, Brown's spiral rule,

jos-index-v17-n2-2008-item10-page28.txt

Title: Dr. Prince's Refracting Rule Made by K&E

Author: Castleberry, Clay

Summary: Discussion of a K&E non-slider rule made for the American Optical Company for determining the approximate range of distance at which, for a specific age, one should read small type.

Keywords: Dr. Prince's Rule, K&E, American Optical Company

jos-index-v17-n2-2008-item11-page29.txt

Title: Square Roots by Slide Rules and Other Means

Author: McFarland, David D.

Summary: Describes the principles underlying square root calculations and discuss various computational aids built on those principles.

Keywords: Ogburn W.F., Hearh T.L.,

jos-index-v17-n2-2008-item12-page40.txt

Title: Slide Rules, Sextants, and the Sky

Author: McConnell, Paul

Summary: The title examines instrumental milestones in aerial celestial navigation. It includes a brief sketch of spherical trigonometry as applied to celestial navigation, a few diagrams, four examples of the solution of the Navigational Triangle using different methods of computation, and descriptions of a few additional slide rules and instruments for aviators. The Bygrave Position Line Slide Rule remains the central subject.

Keywords: The Bygrave Position Line Slide Rule, celestial; navigation, sextants, airship navigation, slide rules for airships, airplanes, space sextant

jos-index-v17-n2-2008-item13-page51.txt

Title: Mystery Slide Rule from the K&E Cabinet at the MIT Museum

Author: Kugel, Günter

Summary: Discussion of the “Mystery slide rule” from the MIT museum including dating, construction, and use.

Keywords: K&E, Mystery Slide rule, stadia-type slide rule, Dennert&Pape, D&P, Leemann’s stadia slide rule, Werner C., Dennert H., Kern J., Jourdan, Stambach, Douglas D., Oetling L., Wild/Kern stadia slide rule, , Gauss C.F., Goldschmidt, Aeschlimann H., von Jezierski D., Kleine K., Shepherd R.,

jos-index-v17-n2-2008-item14-page59.txt

Title: Timber Rules and Their Use

Author: Manley, Ronald E.

Summary: An overview on the history and use of Timber rules.

Keywords: Timber rules, Mary Rose, Coggeshall H., Partridge, Pepys S., load tables, scaling (proportional scales),

jos-index-v17-n2-2008-item15-page64.txt

Title: Oughtred’s Universal Ring Dial

Author: Staff

Summary: Review of the book *Sundials – An Illustrated History of Portable Dials* by Hestor Higton, (2001) and the section pp77 William Oughtred and his designs, which describe several of Oughtred’s inventions in this area.

Keywords: Oughtred W., Higton P., Bleuler, Allen E.,

## Vol. 18, No. 1 Spring 2009

jos-index-v18-n1-2009-item1-page1.txt

Title: The "Erlang Dial" Slide Chart for Telephone Exchange Traffic Blocking Probabilities

Author: van Poelje, Otto E.

Summary: This paper highlights one of the many slide charts, the "Erlang Dial", to uncover the story on the industry, the technology and the mathematics behind this slide chart specimen.

Keywords: slide charts, Erlang Dial, analogue-graphical slide charts, telephone, Erlang A.K., Philips,

jos-index-v18-n1-2009-item2-page4.txt

Title: A Cautionary Tale

Author: Editor

Summary: The book *Slide Rules and Submarines* by Montgomery C. Meigs was reviewed. It describes how American Scientists introduced new strategies into WWII submarine warfare but lacks any discussion of the use of slide rules.

Keywords: Meigs M.C., submarines,

jos-index-v18-n1-2009-item3-page5.txt

Title: Elektro/Electro Slide Rules: A Critical Evaluation

Author: Hughes, Richard Smith

Summary: This article discusses Electro slide rules, specialized rules useful to electrical engineers in solving problems that are critical for any power distribution system; e.g. line resistance, voltage drop, weight of copper wire and dynamo/generator and motor efficiencies. Equations used for these determinations are outlined.

Keywords: Elektro/Electro slide rules, electrical engineers, Aristo model 815. A. G. Thornton P.I.C. 981, Unique electrical slide rule, Faber-Castell 1/98, Dynamo efficiency, conductor weight, conductor voltage drop,

jos-index-v18-n1-2009-item4-page10.txt

Title: Dietzgen 10-Inch Duplex Log-Log Slide Rule Chronology Part I: to 1956

Author: Lodge, Ian

Summary: Article discusses the 10 inch Duplex Log-Log slide rules made by Dietzgen from the 1940s to 1956 and establishes the dates when Deitzgen introduced their first series of Log-Log duplex slide rules,

Keywords: Dietzgen E., Dietzgen Decimal Trig Log-Log Duplex rule 1732, Dietzgen Vector type Log-log rule 1735, Dietzgen Decimal Trig Log-Log rule 1733, Dietzgen Trig Type Log-Log rule 1731, Dietzgen Vector Type Log-Log rule 1725

jos-index-v18-n1-2009-item5-page15.txt

Title: Dietzgen 10-Inch Duplex Log-Log Slide Rule Chronology Part II: 1956 - 1973

Author: Lodge, Ian

Summary: Article discusses the 10-inch Duplex Log Log slide rules made by Dietzgen from 1956 to 1973, e.g. the third and fourth generation Micromatic and Microglide series of slide rules.

Keywords: Dietzgen N1731 Micromatic, Deitzgen N1732 Micromatic, Dietzgen N1725 Micromatic, Dietzgen N1733 Micromatic, Dietzgen N1731 Microglide, Dietzgen N1734 Microglide

jos-index-v18-n1-2009-item6-page19.txt

Title: Confessions of A Slide Rule Addict

Author: Hughes, Richard Smith

Summary: The author's reminiscences about how he got addicted to collecting slide rules.

Keywords: slide rule collecting,

jos-index-v18-n1-2009-item7-page21.txt

Title: The Tens Carry: Remarks on Didier Roth's Multiplicateur et Diviseur á Réglettes

Author: Weiss, Stephen

Summary: One of the problems while constructing a mechanical multiplying machine or instrument in the past arose with the tens carry. Here the author discusses a special tens carry mechanism in an instrument for multiplying, which means there are no gears to perform the task.

Keywords: Roth D., instrument for multiplying,

jos-index-v18-n1-2009-item8-page24.txt

Title: Function-Scale Proportion on a Slide Rule

Author: Moon, Marion

Summary: A discussion of the use of function scale proportions on a slide rule as outlined in two versions of the book K&E Slide Rules. Several pages are presented with the basic approaches described.

Keywords: function-scale proportions, percentages, Pythagoras, P scale, square root,

jos-index-v18-n1-2009-item9-page32.txt

Title: A Timepiece for the Time

Author: Castleberry, Clay

Summary: Article looks at Oughtred's development of the equinoctial ring dial, a cutting edge timepiece for the year 1624.

Keywords: Oughtred W., equinoctial ring dial, Allen E., universal dial, double ring dial, horological circle,

jos-index-v18-n1-2009-item10-page35.txt

Title: Napier's Prontuarium

Author: Jannamorelli, Bruno

Summary: The author describes the Prontuarium by John Napier and recreated this calculating device from wood and describes its use.

Keywords: Napier J., Prontuarium, calculating device, Napier's rods,

jos-index-v18-n1-2009-item11-page39.txt

Title: The Boykin RotaRule

Author: Davis, W. Richard

Summary: This article describes the Boykin RotaRule, designed by Bernard C. Boykin. He gives a brief history of Bernard Boykin and his slide rule and some of its features.

Keywords: Boykin B.C., Dempster RotaRule, Boykin RotaRule, Boykin Model 510, Boykin Model 560,

jos-index-v18-n1-2009-item12-page46.txt

Title: Those Decimal-Keeping Cursors?

Author: Castleberry, Clay

Summary: The author discusses the arrow-based cursors that occurred from 1900 -1940 that were supposed to provide a surefire method of keeping track of decimal points.

Keywords: decimal-keeping cursors, Hemmi, Stanley, Faber, K&E 4041

jos-index-v18-n1-2009-item13-page49.txt

Title: The Otis King's Patent Calculators – Catalogue Raisonne

Author: Blankenhorn, R. C.

Summary: This article compiles a list of the different holder and cylinder scales and models.

Keywords: Otis King, Carbic Limited, Holder/Bottom scales,

jos-index-v18-n1-2009-item14-page52.txt

Title: Calculating Instruments at the Smithsonian – In Memoriam

Author: Otnes, Bob

Summary: The author discusses calculating machines, including patent models, at the Smithsonian that were on display in 1984 but unlikely to be seen by the public again anytime soon. Photos accompany the descriptions.

Keywords: Smithsonian Institution, Baldwin, Shilt, Baldwin/Monroe, Felt & Tarrant Comptograph, Henri Harmonic Analyzer, Manheim slide rule

jos-index-v18-n1-2009-item15-page54.txt

Title: A Lucky Find: A K&E 4032

Author: Castleberry, Clay

Summary: A slide rule that the author suspects is a K&E Model 4032, a rare slide rule, is discussed.

Keywords: K&E Model 4032,

jos-index-v18-n1-2009-item16-page55.txt

Title: A Good Slide Rule

Author: Otnes, Bob

Summary: The author discusses an unmarked Albert Nestler slide rule made about 1900-1920 with a magnifier.

Keywords: Albert Nestler, Stanley Magnifier

jos-index-v18-n1-2009-item17-page56.txt

Title: Albert Nestler A.G. and the "Pi" Symbol

Author: Nestler, Jorgen; Barnes, Colin

Summary: The exploration into the types of Pi symbol used on Albert Nestler slide rules is discussed.

Keywords: Albert Nestler slide rules, Pi symbol, Dennert & Pape, sphinx logo, Nestler dividing machine

jos-index-v18-n1-2009-item18-page60.txt

Title: Book Reviews

Author: Otnes, Bob

Summary: Article reviewed the following books: *The Erwin Tomash Library of the History of Computing, an Annotated and Illustrated Catalog* by E. Tomash and M. R. Williams; *The Schuitema Collection – A Gallery of Panels with Slide Rules and Disks* by IJzebrand Schuitema and Otto van Poelje;

Keywords: Tomash E., Williams M.R., Schuitema I., van Poelje O.

jos-index-v18-n1-2009-item19-page62.txt

Title: The Lindholm Adder (1886)

Author: Otnes, Bob

Summary: This is a chapter in a book *Early Key Driven Adding Machines with an Emphasis on American Devices* by Bob Otnes

Keywords: Adding Machines, Lindholm Adder, Otnes B.

## Vol. 18, No. 2 Fall 2009

jos-index-v18-n2-2009-item1-page1.txt

Title: President's Message

Author: De Cesaris, Bob

Summary: President describes the changes in the JOS with the retirement of Bob Otnes.

Keywords: Otnes B., De Cesaris B., Koppany B., van Poelje O.

jos-index-v18-n2-2009-item2-page1.txt

Title: Introducing the new Editorial Team

Author: Koppany, Bob; van Poelje, Otto; Hume, Ted; Black, Don

Summary: Introduction of the new editorial team for the Journal of the Oughtred Society.

Keywords: Koppany B., van Poelje O., Hume T., Black D., JOS

jos-index-v18-n2-2009-item3-page2.txt

Title: Medical Calculating Disc by Dr. A. Lips

Author: Bloemendaal, Peter M.

Summary: The instrument described claims to provide a more efficient method for routine clinical/chemical calculations in medicine, including body surface area, basal metabolism rate and kidney function,

Keywords: Bloemendaal P.M., Lips A., medical slide rule

jos-index-v18-n2-2009-item4-page6.txt

Title: Pre-Announcement – The Oughtred Society 2010 Winter Meeting

Author: Hume, Ted

Summary: Early announcement of the February 20, 2010 meeting to be held in Las Vegas.

Keywords: Hume T., Oughtred Society Meeting

jos-index-v18-n2-2009-item5-page7.txt

Title: Strange Variations

Author: Shawlee, Walter

Summary: Author describes some of the unusual slide rules and slide rule variations that collectors can focus on.

Keywords: Shawlee W., slide rule variations

jos-index-v18-n2-2009-item6-page8.txt

Title: Pre-announcement – International Meeting IM2010 in Leiden, the Netherlands, September 17 & 18, 2010

Author: Hakkaart, Chris; van Poelje, Otto

Summary: Announcement of upcoming International Meeting of Slide Rule Collectors in Leiden, the Netherlands.

Keywords: Hakkaart C., van Poelje O., IM2010

jos-index-v18-n2-2009-item7-page9.txt

Title: Oughtred Society 2009 Annual Meeting

Author: McCoy, Clark; Wyman, Tom

Summary: Overview of Oughtred Society 2009 Annual Meeting held in Mountain View, CA.

Keywords: Oughtred Society, McCoy C., Wyman T.

jos-index-v18-n2-2009-item8-page11.txt

Title: The Ewing/Apps Circular Engineers Slide Rule

Author: Schure, Conrad

Summary: Two circular engineers slide rules, circa 1860-1870, one owned by the author and one found in the Science Museum in London are similar except for the names and addresses engraved on the front; one with Ewing's name and address and one with Apps name and address.

Keywords: Schure C., Ewing Circular Engineers slide rule, Apps Circular Engineers Slide Rule, Apps A., Ewing C.,

jos-index-v18-n2-2009-item9-page14.txt

Title: Multitasking Slide Rule for the 1950s

Author: Castleberry, Clay

Summary: A Chadwick combination circular slide rule is described combined with a cigarette lighter and perpetual calendar.

Keywords: Castleberry C., Chadwick 7285 circular slide rule,

jos-index-v18-n2-2009-item10-page16.txt

Title: Book Review – *The Mathematics of the Heavens and the Earth: The Early History of Trigonometry* by Glen van Brummelen

Author: Borchers, Brian

Summary: A Chadwick combination circular slide rule is described combined with a cigarette lighter and perpetual calendar.

Keywords: Castleberry C., Chadwick 7285 circular slide rule,

jos-index-v18-n2-2009-item10-page16.txt

Title: Book Announcement – *The Schuitema Collection* by IJzebrand Schuitema and Otto van Poelje

Author: Schuitema, IJzebrand; van Poelje, Otto

Summary: The authors provide additional information, including where to purchase and download a free PDF copy.

Keywords: Schuitema, IJ., van Poelje O., The Schuitema Collection

jos-index-v18-n2-2009-item11-page17.txt

Title: 15<sup>th</sup> Annual Meeting – IM2009

Author: Rance, David G.

Summary: A description of the 15<sup>th</sup> International Meeting of Slide Rule and Mechanical Calculator Collectors held on September 4-6 2009 in Greifswald, Germany

Keywords: Rance D., IM2009

jos-index-v18-n2-2009-item12-page18.txt

Title: Many Formulas

Author: Alfeld, Peter

Summary: The main purpose of this article is to discuss what mathematical expressions can be evaluated using scales other than the C or D scales. It turns out that there are tens of thousands of such formulas and expressions. Included are tables of common scales, computational procedures, 14 ways to multiply, single variable conversion, two variable expressions, three variable expressions, Most calculations involve just multiplication and division.

Keywords: Alfeld P., slide rule formulas

jos-index-v18-n2-2009-item13-page22.txt

Title: Non-decimal Slide Adders and the Carry

Author: Weiss, Stephen

Summary: Article describes how the small mechanical adders with parallel arranged and hook-shaped slots carried digits.

Keywords: Weiss S., Addiator Octadat, Addiator Sterling, Addimult Addmaster, Addiator Add-a Time, Addiator Astro, Addiator Sizematic, Addiator Rupee, Addimult Summator Rupee

os-index-v18-n2-2009-item14-page25.txt

Title: The Oughtred Society Awards 2009

Author: Kühn, Klaus

Summary: Article describes the contributions of the winners of the 2009 Oughtred Society Awards, Werner Girbardt, Werner Schmidt Michael Konshak and Werner Rudowski. New Fellows of the Oughtred Society in 2009 include Donald Black, Robert Adams, Jürgen Nestler and Ronald van Riet.

Keywords: Kühn, K., Girbardt W., Schmidt W., Konshak M., Rudowski W., Black D., Adams R., Nestler J., van Riet R.

os-index-v18-n2-2009-item15-page27.txt

Title: A 90<sup>th</sup> Birthday Cake Slide Rule

Author: Green, Alex E. S.

Summary: A birthday cake in the shape of a slide rule was used to celebrate the 90<sup>th</sup> birthday of the author by his daughter. The cake represents the ship length slide rule computer that Green designed at the behest of the Navy during WWII. The use of the slide rule is described.

Keywords: Green, A. E. S., Ship Length slide rule

os-index-v18-n2-2009-item16-page29.txt

Title: Book Review- *A.W. Faber & A.W. Faber-Castell* by Peter Holland

Author: van Poelje, Otto

Summary: The author's conclusion is that this booklet is a must-have for the serious collector of Faber-Castell slide rules who already has knowledge of slide rules, scales and the Faber Castell brand.

Keywords: van Poelje O., Holland P., Faber, Faber-Castell

os-index-v18-n2-2009-item17-page30.txt

Title: Membership Report as of October 30, 2009

Author: McCoy, Clark

Summary: Review of the 2009 membership figures for the Oughtred Society

Keywords: McCoy C., membership figures

os-index-v18-n2-2009-item18-page31.txt

Title: The Log Log Scales on the D&P Elektro Slide Rule of 1919

Author: Otnes, Bob

Summary: The author describes a D&P Elektro slide rule he recently acquired and discusses the similarity between it and a Nestler, which is consistent with the knowledge that there was much interaction among the three German slide rule makers.

Keywords: Otnes B., Nestler, D&P

os-index-v18-n2-2009-item19-page33.txt

Title: The First Tables of Logarithms – A Brief Chronology

Author: Wyman, Thomas

Summary: The object of this article is to identify and briefly discuss the key publications dealing with logarithms that appeared during the 20 years following the publication in 1614 of John Napier's (1550-1617) seminal work. .

Keywords: Wyman T., Napier J., Briggs H., Gunter E., Wingate E., Vlacq A., logarithm tables

os-index-v18-n2-2009-item20-page40.txt

Title: K&E 4102 Surveyor's Duplex Slide Rule

Author: Hughes, Richard Smith; McCoy, Clark

Summary: The Surveyor's Duplex 4102/N412, discussed in this article is a true masterpiece of slide rule design. The article discusses historical background and the slide rule's theory and operation...

Keywords: Wyman Hughes R.S., McCoy C., Surveyor's Duplex 4102/N412 slide rule,

os-index-v18-n2-2009-item21-page46.txt

Title: Suggestions for Dating pre-1920 Faber-Castell Slide Rules

Author: Catlow, Trevor

Summary: The article addresses some of the issues connected with dating of early A.W. Faber slide rules, before they started dating their rules in the 1920s.

Keywords: Catlow T., Faber-Castell, dating ,

os-index-v18-n2-2009-item22-page54.txt

Title: Suggestions Special Comments for Robert K. Otnes

Author: De Cesaris, Bob; von Jezierrski, Dieter; Wyman, Tom

Summary: Three tributes to Bob Otnes for his contributions to the Oughtred Society, the Journal of the Oughtred Society and to slide rule collecting in general...

Keywords: Otnes, B., De Cesaris, B., von Jezierski, D. Wyman T.

os-index-v18-n2-2009-item23-page58.txt

Title: Seeing the Light

Author: Sweetman, David

Summary: The author describes his first encounter with slide rules followed years later with a clearer understanding of how they worked. He now advocates teaching high school students the use of slide rules to increase their understanding of the accuracy and precision of calculations, as well as the use and understanding of approximations and interpolations

Keywords: Sweetman D., Pickett 200 slide rule, Kemet Reliability Calculator, Arrow pinwheel calculator

os-index-v18-n2-2009-item24-page60.txt

Title: A Brief History of the Aristo Studio Slide Rule

Author: Mosand, John

Summary: To begin, Aristo and Dennert and Pape are the same company, Aristo simply became the product name for the company in 1936. The Studio was Aristo's most successful slide rule, with over two million made. The author describes some of the models and their history

Keywords: Mosand J., Aristo Studio Slide Rule, Dennert and Pape, Aristo 0968, Aristo 868, Aristo 01068, Aristo 68/150

os-index-v18-n2-2009-item25-page64.txt

Title: The Worthington Centrifugal Pump Specific Speed Calculator

Author: Koppany, Bob

Summary: Author describes a calculator used for pump speed for various flow rates that he recently discovered.

Keywords: Koppany B., Worthington Centrifugal Pump Specific Speed Calculator,

os-index-v18-n2-2009-Fall 2009 Supplement

Title: A Tribute to Robert K. Otnes

Authors: De Cesaris, Bob; von Jezierski, Dieter; Wyman, Tom; Barnes, Colin; Castleberry, Clay; Chamberlain, Ed; Cooper, Barbara; Flom, Gary S.; Giordano, Raymond; Green, Alex E.S.; Hans, Mort; Hume, Ted; Jones, Curtis; Kerr, Billy; Knapp, Ron; Koppany, Bob; Lisowski, William; Lyon, Dick; Maslowski, Peter; Matthews, Kate; McConnell, Paul; McCoy, Clark; McFarland, David D.; Owen, J.G.; Purcell, Bryan; Russo, Thomas A.; Sauer, Robert; Schuitema, IJzebrand; Schure, Conrad; Shepherd, Rodger; Teter, Winton; van Poelje, Otto; Williams, Michael J.;

Summary: Special comments about Bob Otnes from many of his friends at the Oughtred Society on his retirement from editor of the Journal of the Oughtred Society

Keywords: Otnes, R.K.,

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jos-index-v19-n1-2010-item1-page2.txt

Title: Editorial

Author: Koppany, Bob

Summary: Editor describes the changes in the Journal of the Oughtred Society

Keywords: JOS, Koppany B.

jos-index-v19-n1-2010-item2-page3.txt

Title: Square Root of 10 Folded Scales

Author: Moon, Marion

Summary: Author investigates the unique properties of the square root of 10 folding slide rules

Keywords: square root of 10 folding slide rules, Moon M., Unique Dualistic, Flying Fish,

jos-index-v19-n1-2010-item3-page7.txt

Title: Invitation to IM2010 on 17-18<sup>th</sup> September in Leiden, The Netherlands

Author: Hakkaart, Chris; van Poelje, Otto

Summary: Outline of the Dutch KRING for this year's International Meeting of Collectors of Historical Calculating Instruments

Keywords: Hakkaar C., van Poelje O.

jos-index-v19-n1-2010-item4-page8.txt

Title: A Brass Slide Rule by Dennert & Pape

Author: Rudowski, Werner H.

Summary: A discussion of the history and use of a very rare brass Dennert & Pape slide, made between 1879 and 1882

Keywords: Rudowski W.H., Dennert & Pape, brass slide rule

jos-index-v19-n1-2010-item5-page10.txt

Title: If You Build It, They Will Come; Slide Rule Loan Program for Schools

Author: Konshak, Michael V.

Summary: The author describes his success in lending slide rules to elementary, middle and high schools and some colleges to encourage the lost art of Numeracy, the ability to manipulate numbers and common sense answers in their heads.

Keywords: Konshak M.V., loaner slide rules, Numeracy,

jos-index-v19-n1-2010-item6-page14.txt

Title: Using Old Tools to Solve a Modern Problem; The Reintroduction of the Slide Rule to the Classroom

Author: Purcell, Bryan

Summary: The author gives an argument for the use of slide rules as a math tool throughout the educational process, not only to solve problems but also to act as a visual bridge to force the user to engage his mind, tie the concepts of the ideas, the data, and the formulae to the real world.

Keywords: Purcell B., slide rules in classroom,

jos-index-v19-n1-2010-item7-page17.txt

Title: The Mystery of the Disappearing Bakelite

Author: Rance, David G.

Summary: Author describes the invention of Bakelite and its subsequent but limited use in slide rules. The Blundell Harling Ltd. company is highlighted.

Keywords: Rance D.G., Bakelite slide rule, Blundell Harling Ltd., BRL, Baekeland L. H., Stanley Fuller,

jos-index-v19-n1-2010-item8-page27.txt

Title: Log Log Scale for Exponential Decay

Author: Jones, Curtis A.

Summary: Whenever the rate at which some physical property returns to equilibrium, an exponential process can be expected. The author describes how a Sterling No. 594 Decimal Trig Multilog slide rule can be used to easily calculate the exponential decay rate.

Keywords: Jones C.A., Sterling No. 594, exponential decay

jos-index-v19-n1-2010-item8-page28.txt

Title: Book Review - "**Joint Slide Rules**" by Peter Hopp

Author: van Poelje, Otto

Summary: The scope of this subject is roughly summarized as slide rules with at least one hinge. The major part of this book is dedicated to a large number of actual specimens of joint rules, with many details on hinge construction, slide and scale design, makers and specific applications.

Keywords: Hopp P., van Poelje O., joint slide rules

jos-index-v19-n1-2010-item9-page29.txt

Title: Early Cooperation between A.W. Faber and Dietzgen

Author: Holland, Peter

Summary: Author identifies seven slide rule models made by A. W. Faber and sold by Dietzgen between 1907-1912.

Keywords: Holland P., Faber A.W., Dietzgen

jos-index-v19-n1-2010-item10-page30.txt

Title: Oughtred Society Fall East Coast Meeting 2009

Author: Gotlib, Louis

Summary: Description of the Fall 2009 Oughtred Society meeting held in Floram Park, N.J.

Keywords: Oughtred Society, Matthews, K., Gotlib L.,

jos-index-v19-n1-2010-item11-page31.txt

Title: Public Display of Your Collection

Author: Castleberry, Clay

Summary: A reminder to all Oughtred Society members that it is important and easy to share our collections of slide rules and calculators with others.

Keywords: Castleberry C., Displaying slide rules and calculators.

jos-index-v19-n1-2010-item12-page32.txt

Title: Who is your choice for an Award in 2010?

Author: Rance, David G.

Summary: An encouragement to all Oughtred Society members to nominate individuals) members and non-members) for Oughtred Society awards.

Keywords: Oughtred Society Awards.

jos-index-v19-n1-2010-item13-page33.txt

Title: John R. Dempster, the Remarkable Dempster RotaRule and the Extraordinary Dempster Family

Author: Davis, W. Richard

Summary: This article contains new material about the RotaRule, its exceptional inventor, John R. Dempster, and a brief history of the Dempster family.

Keywords: RotaRule, Dempster J.R., Davis W.R.,

jos-index-v19-n1-2010-item14-page41.txt

Title: Magnetic Slide Rules by ITAB

Author: Holland, Peter

Summary: This article discusses a small slide rule company ITAB (Internationaler Tabellenverlag) and its owner, Johann Dogogli. Magnetic slide rules by the ITAB company have the special characteristic that the slide is held in the open well by magnetic force while the slide with its scales is moved along the body.

Keywords: ITAB, (Internationaler Tabellenverlag), Dogigli J., Magnetic slide rule, Styropor thermal insulation slide rule, sand-lime calculator, Linde-Gascalculator,

jos-index-v19-n1-2010-item15-page46.txt

Title: A Pickett N3T Variant

Author: Koppany, Bob

Summary: The author describes a yellow Pickett slide rule, labeled Pickett N3T, when it should be labeled Pickett N3-ES. It is rare but is it valuable?

Keywords: Koppany B., Pickett,

jos-index-v19-n1-2010-item16-page47.txt

Title: Specialized Slide Rules for Electronic Engineers: A Critical Review; My world and Welcome to It.

Author: Hughes, Richard Smith

Summary: This article discusses electronic slide rules specifically designed to aid in the solution of inductive reactance, capacitive reactance and resonance frequency.

Keywords: Hughes R.S., K&E 4138, inductive reactance slide rule, capacitive reactance slide rule, resonance frequency slide rule. Sun Hemmi 256, Aristo 10175, Pickett N-515-T, Pickett N16ES, Concise 380, Sun Hemmi 266, Tianjin 6568 Squirrel.

jos-index-v19-n1-2010-item17-page54.txt

Title: Calculating Disc by Benjamin Ayres (circa 1750)

Author: van Poelje, Otto E.

Summary: The author describes an Ayres Calculating disc found in the Science Museum, University Museum of Utrecht (Netherlands), and how it was used.

Keywords: van Poelje O. E., Ayres Disc, University Utrecht

jos-index-v19-n1-2010-item18-page59.txt

Title: The Aristo 920 Federfix-System Niemann

Author: Mosand, John

Summary: The Aristo 920 Federfix is a complex slide rule for the design of spiral springs

Keywords: Mosand J., Aristo 920 Federfix, System Niemann,

jos-index-v19-n1-2010-item19-page60.txt

Title: A Very Early Lenoir Slide Rule

Author: Thomas, Marc

Summary: The author presents a slide rule made by Etienne Lenoir which was one of the first slide rules made in France. He describes how he dated the slide rule.

Keywords: Thomas M., Lenoir Slide Rule,