

### THE SILENT VOICE OF TIME (1975-1995): SCIATHERICS 1

LETTER TO THE EDITOR; BIFILAR GNOMONICS; Review: CATALOGUE OF GREEK AND ROMAN SUNDIALS; AN EQUANT SUNDIAL; A SELF-ORIENTING EQUIANGULAR SUNDIAL; FOSTER'S DIAMETRAL SUNDIAL; A QIBLA LINE CONSTRUCTION; A THREE-POINT SUNDIAL CONSTRUCTION; MOON DIALING; OF ANALEMMAS, MEAN TIME AND THE ANALEMMATIC SUNDIAL; A STAINED-GLASS DIPTYCH PATTERN; SOLVING THE SPHERICAL TRIANGLE; REDUCING A PLANE TO THE HORIZONTAL; ERROR IN A MISPLACED DIAL; A UNIVERSAL NOMOGRAPHIC SUNDIAL; SERLE'S DIALING SCALES; DIALLING UNIVERSAL BY GEORGE SERLE

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#### HUGO MICHNIK'S CONTRIBUTIONS TO THE THEORY OF SUNDIALS: SCIATHERICS 8

This volume includes translations of Hugo Michnik's early 20th century contributions to the theory of sundials. These include the first full development of the equations for seasonal hour lines on ancient sundials, the introduction of sidereal hour lines for dials, and the invention of the bifilar sundial that indicates time from the intersection of the shadows of two perpendicular wires raised to different heights above the dial face. The book also includes 6 explanatory articles on Michnik and his work, including the first biographical essay to identify who Hugo Michnik was and to give details of his life.

#### THE THEORY OF SUNDIALS: SCIATHERICS 7

A TRANSLATION OF JOSEPH DRECKER'S 1925 CLASSIC DIE THEORIE DER SONNENUHREN. *This is not an introduction to modern dialing theory.* Much of the book's focus is on the final mathematical solution (after a millennium of attempts) of the nature of the antique seasonal hour lines. The remainder of the book discusses various forms of modern dials, including the first publication, after H. Michnik's original article, of the bifilar sundial.

### ENCYCLOPAEDIC DIALING: SCIATHERICS 6

BRINGING TOGETHER ALL OF THE ARTICLES ON DIALING FROM THE FIRST 13 EDITIONS OF THE ENCYCLOPAEDIA BRITANNICA. By examining the topic over a period of a century and a half, we are able not only to get a comprehensive treatment but also to see how the various subtopics in dialing, and indeed the topic of dialing itself, evolved and devolved in importance – at least in the view of the Britannica editors.

### MORE TO SAY (2010-2020): SCIATHERICS 5

PROJECTED REFRACTION SUNDIALS WITH AMBIGRAM; HARE'S RECLINING DECLINER; DIRECT EQUATIONS FOR ANALEMMATIC SUNDIAL SOLSTICE POINT; HORIZONTAL LAYOUTS 1-4; HORIZONTAL LAYOUT 6; HORIZONTAL LAYOUT 7; ASHTON'S COMEUPPANCE; DINSMORE'S COMPARATIVE TIME-TABLE; CHIPCHASE'S RETURN; TRACKING ELIHU YALE'S SUNDIAL; NICOLE'S MERIDIAN; AN OFFER OF ASSISTANCE FROM E.C. MIDDLETON; HOLBEIN'S CLOCK SALT; THE LAST SCHILT HELIOCHRONOMETER; LOCATING THE SCHILT POINT; WANDERING-GNOMON SUNDIAL DESIGN; ALBERT CUSHING CREHORE (1868-1969); PHILIPPE DE LA HIRE & JEAN PICARD; LINEAR EQUANT SUNDIAL DESIGN; A GRAPHICAL DIAL CONSTRUCTION BY JEAN DE CASTILLON; ELLIPTICAL SUNDIALS: GENERAL & CRATICULAR POLAR ENVELOPE GNOMONS; INQUIRIES; SOLAR DECLINERS; DIALING SCALE NOSTALGIA

### BORN OF LIGHT (2004-2009): SCIATHERICS 4

DESPERATELY SEEKING VAULEZARD; DIALING SCALES: REVIEWING THE GENERAL THEORY; COMPRESSED GNOMONIC SUNDIALS; EQUATIONS FOR HOLLANDER'S MEAN-TIME SUNDIAL; A BIPOLAR AZIMUTHAL EQUANT SUNDIAL; THE BURY ST. EDMUNDS CURVE; AN ENCOUNTER WITH NUMB3RS; A STEREOGRAPHIC LAYOUT TECHNIQUE; BLGRAVE'S STEREOGRAPHIC LAYOUT TECHNIQUE; TOWERING TIMEPIECE; PEAUCELLIER SUNDIALS; SICUT IN CÆLŌ ET IN TERRĀ ET IN CÆLATURĀ; AN OSCULATORY SUNDIAL; ROBINSON'S QUANDARY; LETTER TO THE EDITOR: DUAL SUNDIALS; AN 18<sup>TH</sup>-CENTURY INNOVATION; J. MANDL'S ALTITUDE ABAC; MISALIGNED ANALEMMATIC; BIFILAR ORIGINS; A GLIMPSE OF ALSACE; NICOLE'S REFLECTIONS; PATRON SAINT HILDEVERT; SAINT HILDEVERT IN ENGLAND; WILLIAMS' SHADED PLOT; A SUNDIAL SAFARI LIMERICK; DIFFERENTIAL DIALING SCALES; GEOSSETTING IN EAST ANGLIA;

ANDREAS SCHÖNER'S STEREOGRAPHIC SUNDIAL DESIGN; A TIPPED DIAL ENIGMA

### RAY OF SUNLIGHT (1999-2004): SCIATHERICS 3

GUNDLACH'S SHADOWLESS SUNDIALS; HELIOTROPE XVIII; A DECLINING NOON MARK; THE NASS ANGEL; NICOLE'S WEDGE; BASHO HIDOKEI – A TRADITIONAL JAPANESE SUNDIAL; JACQUES' LAYOUT; DIGITAL SUNDIALS – TIME AT YOUR FINGERTIPS; THE PELEKINON BRIEF; Z'HOI AND THE SAWYER DIALING PRIZE; COLONIAL SIGHTINGS... IN CEMETERY AND CRYPT; YABASHI POINT AND SAWYER EQUANT; NICOLE'S DOLLAR; OUDEMANS' CURVE; FOSTER'S PROOF FOR DIALING SCALES; A FILLIP FOR LEYBOURN; FURTHER EVOLUTION OF FOSTER'S DIALING SCALES; A GENERAL ANALYSIS OF FOSTER'S CIRCULAR NOMOGRAM; REGULATING THE FOSTER-POINT; LETTER TO THE ADLER PLANETARIUM; THE FOSTER-POINT SUNDIAL; A HORIZONTAL SUNDIAL BY JULIEN LEROY; AL-KASHI'S WALL; GNOMONIC MODES & PTOLEMAIC COORDINATE DIALS; A SUNDIAL BY RULE OF THUMB; EBLE'S HOROSCOPE; VERTICAL DECLINERS BY A NEW, EASIE & MOST SPEEDY WAY; ILLUMINATION BY SCALES; A NOTE ON THE ORIGINS OF DIALING SCALES; FROM UNIVERSAL ANALEMMATIC TO SUN COMPASS; HOOKE'S DEVICE; A LATITUDE-INDEPENDENT ANALEMMATIC EQUANT DIAL DESIGN; SIGHTINGS AT COLGATE; A COLGATE CHECKUP; ANALEMMATIC DIALING SCALES; THE OLDEST ANALEMMATIC DIAL?

### A MAGIC SHADOW-SHOW (1995-1999): SCIATHERICS 2

EXTREME HOURS OF SUNLIGHT; DESIGNING A NOCTURNAL; UNIVERSAL HORIZONTAL DIALFACES; ATMOSPHERIC REFRACTION; A POLYHEDRAL ADDENDUM; CANTERBURY SHADOWS; GEOGRAPHIC SUNDIALS; A PORTABLE ASTROID DIAL; WILLIAM OUGHTRED'S DOUBLE HORIZONTAL DIAL; EMERSON'S QUEST; SHADOW PLANE ADDENDUM; EMERSON'S QUANDARY; SOME SECRET MOTION OF THE EARTH; A MEMORABLE BIRTHDAY CELEBRATION; HAUXLEY'S CHALLENGE; FROM DIAL TO DECLINATION; SAMUEL FOSTER OF GRESHAM COLLEGE; TOWARDS A GENERAL THEORY OF DIALING SCALES; A VERTICAL DECLINER BY DIALING SCALES AND SCHEMA; NICOLE'S SUNSET; HERBERT'S CORRECTION; PTOLEMAIC COORDINATE SUNDIALS; THE CYCLOID POLAR SUNDIAL; KRATZER'S LAYOUT; PROSTHAPHAERESIS; THE SIX TAGS EXPERIENCE