



International Solar Eclipse Conference

A crossroad on physics and eclipses of the sun

Welcome



from

Joanne Edmonds & Patrick Poitevin, England

Please find herewith the bibliographies of all invited speakers and speakers of papers and posters in alphabetical order.

Bibliography

Jay Anderson, Environment Canada, Winnipeg, Manitoba



* presently a meteorologist with the Prairie Storm Prediction Centre of Environment Canada

* twenty-seven years experience as a forecaster, researcher, and educator

* has published climatological studies for eclipse expeditions since 1979, first with the US Naval Observatory in Washington and currently with Fred Espenak and NASA

* B.Sc. in Physics and Astronomy, University of British Columbia, 1973

* Master of Natural Resource Management, University of Manitoba, 1997

* professional publications in severe weather forecasting and climatology, marine meteorology, and satellite meteorology

* veteran of a dozen eclipses

Bibliography

David Berghmans, Royal Observatory Brussels, Belgium, e-mail:

David.Berghmans@oma.be, tel: ++ 32 2 373 0 559

Born in Antwerp (Belgium), 08/03/1971, Married since 07/02/1994 and father of 1 child (Myrddin Berghmans, 18/08/1999). Present employer: Royal Observatory of

Belgium, Ringlaan 3, B-1180 Brussel, Belgium. Since Februari, 1997: PhD student, supported by the Flemish Fund for Scientific Research (FWO-Vlaanderen). Since June, 1997: assistant researcher, on ESA/PRODEX EIT-budget. Since June,



1998: assistant researcher, in a permanent position of civil servant. Diplomas: PhD in Sciences, option Physics (May, 23, 1997), title thesis: "Heating of coronal loops by MHD waves driven by photospheric motions", Promotor: Prof. Dr. M. Goossens, K.U.Leuven Center for Plasma Astrophysics, Celestijnenlaan 200B, B-3001 Leuven (Heverlee), Belgium. License in Physics, year 1: high distinction (1989-90, U.A., Antwerpen), year 2: high distinction (1990-91, U.A., Antwerpen), year 3: high distinction (1991-92, K.U. Leuven), year 4: highest distinction (1992-93, K.U. Leuven).

Present scientific activities: My scientific activities can be split in three themes: Analysis of multi-wavelength

datasets of solar images at high cadences in order to extract small scale coronal dynamics. This has lead to the discovery of "EUV brightenings" in the quiet Sun and to the EUV equivalents of ARTBs (active region transient brightenings). The systematic analysis of the Belgian EIT archive. Since the launch of SOHO (end of 1995), the EIT instrument has collected more than 180 000 solar images. This unique dataset ranges already from solar minimum to solar maximum and has a high potential for advanced studies of the solar cycle. In this context, I participate in a project that started recently. The extension of the world data center SIDC (Sunspot Index Data Center) to a complete spaceweather institute. Recently, the SIDC has become a 'Regional Warning Center' of the International Space Environment Services. In this context, I participate in the daily spaceweather predictions and provide scientific support. is research is performed in collaborations both inside and outside Belgium. On a Belgian level, I have excellent contacts with the Center for Plasma Astrophysics (CPA) at the Catholic University of Leuven (K.U.Leuven). As a result of this, several students of K.U.Leuven do their graduate and PhD research under my supervision. Moreover, joint projects in the context of Space Weather have been set up with CPA. On an international level, I have -among others- very interesting contacts with the Naval Research Laboratory (NRL) and Goddard Space Flight Center (GSFC), both in Washington D.C. Together with D. Moses (NRL), I work on a project (NASA SOHO-Guest Investigator Program FY99) called 'Intermittent Coronal & Transition Region Brightenings'. In GSFC, I have good contacts with J. Gurman en J. Newmark. I also work on the participation of the Royal Observatory of Belgium in the NASA MIDEX mission 'STEREO'. Finally, I regularly organise visits of international guests to the Royal Observatory and I participated recently in the organisation of a small conference (Belgian EIT Reunion).

I take care of the "system administration" of an HP workstation en do the maintenance of the <http://sidc.oma.be> website.

Publications in international, refereed journals:

'Coronal loop oscillations driven by footpoint motions', Berghmans, D. and De Bruyne, P. *Astrophys. J.* (1995), 453, 495

'The footpoint driven coronal sausage wave', Berghmans, D., De Bruyne, P., and Goossens, M. *Astrophys. J.* (1996), 398, 411

'Direct excitation of torsional Alfvén waves by footpoint motions', Ruderman, M., Berghmans, D., Goossens, M. and Poedts, S. *Astron. Astroph.* (1997), 320, 305

'Temporal evolution of resonant absorption in coronal loops', Tirry, W., Berghmans, D. and Goossens, M. *Astron. Astroph.* (1997), 322, 329

`Wave heating of coronal loops driven by azimuthally polarised footpoint motions: I. Stationary behaviour in dissipative MHD', Berghmans, D. and Tirry, W.J. Astron. Astroph. (1997), 325, 318

`Wave heating of coronal loops driven by azimuthally polarised footpoint motions: II. The time-dependent behaviour in ideal MHD', Tirry, W.J. and Berghmans, D. Astron. Astroph. (1997), 325, 329

`EIT observations of the extreme ultraviolet Sun', Moses, D., Clette, F., Delaboudinière, J.-P., Artznar, G.E., Brunaud, J., Carabetian, C., Gabriel, A.H., Hochedez, J.F., Millier, F, Song, X.Y., Au, B., Dere, K.P., Howard, R.A., Kreplin, R., Michels, D.J., Defise, J.M., Jamar, C., Rochus, P., Chauvineau, J.P., Marioge, J.P., Catura, R.C., Lemen, J.R., Shing, L., Stern, R.A., Gurman, J.B., Neupert, W.M., Newmark, J., Thompson, B., Maucherat, A., Portier-Fozzani, F., Berghmans, D., Cugnon P., Van Dessel, E.L. and Gabryl, J.R., Sol. Phys. (1997), 175 (2), 571

`Quiet Sun EUV transient brightenings and turbulence. A panoramic view by EIT on board SOHO', Berghmans, D., Clette, F. and Moses, D. Astron. Astroph., v.336, p.1039-1055 (1998)

`Active region EUV transient brightenings - First Results by EIT of SOHO JOP80', Berghmans, D. and Clette, F. Sol. Phys., v. 186, Issue 1/2, p. 207-229 (1999).

`Active region transient brightenings: EIT versus SXT' Berghmans, D., Mckenzie, D. and Clette, F., Astron. Astrophys., In preparation

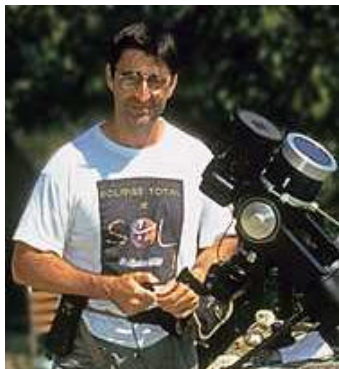
`Slow magnetoacoustic waves in coronal loops: Multi-instrument observations by EIT , TRACE and SXT' Robbrecht, E., Verwichte, E., Berghmans, D., Poedts, S. and Nakariakov, V., Astron. Astrophys., In preparation

More data available on his WebPages of the ROB.

Bibliography

Juan Carlos Casado, Spain

He has published pictures and articles in El Diario Vasco, Hora Nova and News 4 San Antonio (U.S.A) newspapers and Elhuyar, Lecturas, Conocer, Algo 2000, Foto-Video, Natura, Astro-Ciel, Ciel et Espace, Astrum and Fifty Plus (USA) magazines as well in numerous Internet webs, as www.space.com



Collaborator of the magazines "Tribuna de Astronomía y Universo" and "Ciel et Espace". He contributes with images for the publication of the book "The Beginner's Guide to the Universe", published in Great Britain.

Photography for the Astronomy multimedia CD-Rom "Red-Shift 3", Maris Multimedia.

Eclipses pictures for the books "Eclips!" and "Soleil Noir" and "ABC Van de Zonsverduistering". Cover of the book "Curso de Astronomía. Teoría y Práctica".

Scientific adviser for the edition of a videotapes series of scientific popularization for the "Orbis, S.A." editorial .

Their images have been used as models for the simulation software "Genesis VFX", Positron Publishing, Inc.

He has collaborated in diverse occasions with Pamplona Planetarium (Spain) and Copenhagen Planetarium (Denmark).

Member of the international team "Eclipse'98" dedicated to transmit via Internet the February 26, 1998 total solar eclipse.

The National Geographic Society uses an image to promote its book "Other Worlds".

Pictures used by the National Academy of Sciences (USA).

Their images have been used by the BBC for TV programs and website.

Their pictures have been used in Astronomy classes by the University of North Dakota (USA) and by several high schools.

Eclipse'99 pictures for the Barcelona University
Solar eclipse pictures presented in the International Congress Eclipse'99
organized by Institut d'Astrophysique de Paris.
Thirteen of their images have been selected APOD (Astronomy Picture of the Day)
by NASA.

Bibliography

Ralph Chou, Canada



Dr. B. Ralph Chou is an Associate Professor of Optometry at the School of Optometry, University of Waterloo in Waterloo, Ontario. Dr. Chou's research is in the area of industrial and environmental eye protection, with special interest in analysis of, and protection from optical radiation and impact hazards. He has been a consultant to industry and the Canadian government on eye protection against ultraviolet radiation, and published many articles on sunglasses and sun protection. He currently serves as Vice-Chairman of the Technical Committee on Industrial Eye and Face Protection of the Canadian Standards Association, and as a member of the Eclipse Information Committee of International Astronomical Union Commission 46 (Teaching of Astronomy). An amateur astronomer for over 30 years, Dr. Chou has observed 13 total and 2 annular solar eclipses and led 8 eclipse expeditions.

Bibliography

Frederic Clette, Observatoire Royal de Belgique, Departement de Physique Solaire, Avenue Circulaire, 3, B-1180 Bruxelles, Belgique/Belgium tel: .. /32/(0)2/373.02.33, fax: .. /32/(0)2/373.02.24, e-mail: fred@oma.be, fclette@solar.stanford.edu

Work Leader (Chef de Travaux) in the Solar physics Department of the Royal Observatory of Belgium, during daytime, while still an amateur astronomer during some nights (it all started in 1975, when 14 years old).



After a PhD thesis on the observation of solar acoustic oscillations from the Pic-du-Midi Observatory (helioseismology, 1990), I was involved in the preparation of the EIT experiment (Extreme-ultraviolet Imaging Telescope) on the SOHO mission, and since SoHO was launched in december 1995, I worked several months as EIT science planner at the SOHO operations facilities (NASA Goddard Space Flight Center).

Currently, among other research topics, I am working on EIT observations of the smallest flare-like transients detectable on the Sun. In that framework, I have initiated a multi-instrument space observing campaign in 1998. The issue is to find out if those previously undetected events are indeed the main contributors to the extreme temperature of the corona. Beside pure solar physics, I am still monitoring the slow degradation of EIT in flight.

In the meantime, I took part in and organized several Belgian eclipse expeditions: 1991 in Baja California, 1994 in Chile, 1998 on Curacao Island and 1999 in Alsace and central Romania.

My "best" eclipses were 1991 and 1994. The 1999 eclipse was the most exhausting, as it brought a lot of work during more than 12 months: public education, the media and the organisation of TECONet.

Bibliography

Fred Espenak, Planetary Systems Branch, Code 693, NASA/Goddard Space Flight Center, USA

Fred Espenak is an astrophysicist at NASA's Goddard Space Flight Center in Greenbelt, Maryland, where he uses state-of-the-art infrared spectrometers to probe the atmospheres of the planets. This work frequently takes him to the world's highest observatories atop the Hawaiian volcano Mauna Kea. In 1991, he was a co-investigator of an atmospheric experiment flow on Space Shuttle Discovery. He is currently participating in a number of research projects including the monitoring of ozone in Mars' atmosphere, the detection of winds on Venus, Mars and Titan, and the measurement of hydrocarbons in the stratospheres of Jupiter, Saturn, Uranus and Neptune.



Espenak is perhaps best known for his work on eclipses. His two books, *Fifty Year Canon of Solar Eclipses: 1986 - 2035* and *Fifty Year Canon of Lunar Eclipses: 1986 - 2035* have become popular references on the subject. Espenak also publishes special NASA bulletins which provide detailed solar eclipse predictions and maps. He recently co-authored *Totality Eclipses of the Sun* with Mark Littmann and Ken Willcox. Espenak's interest in eclipses was first sparked after witnessing the total solar eclipse of March 1970. Since then, he has participated in nearly twenty eclipse expeditions around the world and has made predictions on thousands of eclipses. His astronomical photographs have appeared in both national and international publications, and he has lectured extensively to the general public on science, eclipses and photography. He is also the webmaster of NASA's official eclipse web site (sunearth.gsfc.nasa.gov/eclipse/) as well as his own personal web site on eclipse photography (www.mreclipse.com).

Fred Espenak, Planetary Systems Branch, Code 693, NASA/Goddard Space Flight Center, Greenbelt, MD 20771, USA. e-mail: u32fe@lepvax.gsfc.nasa.gov Voice: 301-286-5333 FAX: 301-286-0212 Home Page - <http://sunearth.gsfc.nasa.gov/eclipse/eclipse.html> Eclipses in 2000 - <http://sunearth.gsfc.nasa.gov/eclipse/OH/OH2000.html>, 2001 Total Eclipse - <http://sunearth.gsfc.nasa.gov/eclipse/TSE2001/TSE2001.html>

Bibliography

Daniel Fischer, Germany

Daniel Fischer is a space science writer based in Germany who has published seven books and numerous articles in popular and scientific magazines since 1982; he also publishes his own printed and online newsletters (*Skyweek*, *The Cosmic Mirror* and *SuW News*, respectively). Daniel Fischer has also participated in (and sometimes organized) 12 expeditions to central solar eclipses (9 total, 3 annular) and 3 meteor shower expeditions, including one that witnessed a meteor storm. Having been clouded out only one time during these 15 expeditions, Daniel Fischer hopes to hold that success ratio in the next decades. You can visit his homepage with numerous travel reports at www.astro.uni-bonn.de/~dfischer oder www.geocities.com/skyweek .



Bibliography

Bernard H. Foing, Staff scientist, ESA Space Science Department (see <http://solarsystem.estec.esa.nl>)
SMART-1 Project Scientist (<http://sci.esa.int/smart-1/>),
ILEWG president 1998-2000 (<http://www.estec.esa.nl/ilewg/>)
Solar Research Unit Coordinator, Leader ESA eclipse campaigns 1994, 1995, 1998, 1999
Member European Geophysical Society (Solar Physics Secretary, 1996-1999), COSPAR, IAU, AAS, Intl Academy Astronautics, 85 refereed publications (see http://adsabs.harvard.edu/abstract_service.html)
Author/editor of 12 books, organiser of 20 international symposia



Bibliography

Eijiro Hiei, Japan

Date of birth: April 19 1931, Place of birth: Tokyo, Japan, Nationality: Japanese. Present Address(home): 2-56-40, Miyoshi, Fuchu, Tokyo 183-0045, Japan (University): 2-1-1, Hodokubo, Hino, Tokyo 191-8506, Japan; email address: hiei@corona.mtk.nao.ac.jp; fax(home):+81-423-68-0919; fax(Univ.):+81-425-93-0191. Education: 1949-1953, University of Tokyo; 1953-1955, Graduate course of Univ. of Tokyo; Degree: 1963, Ph.D., University of Tokyo; Professional career: 1955-64, Research Associate, Tokyo Astronomical Observatory, Univ. of Tokyo; 1963-64, Visiting Fellow of JILA, Univ. of Colorado; 1964-65, Research Fellow, High Altitude Observatory. 1965-79, Associate Professor, Univ. of Tokyo. 1979-88, Professor, Univ. of Tokyo. 1982-92, Director, Norikura Corona Observatory. 1985-94, Chairman, Eclipse Committee of Japanese Science Council. 1988-91, Chairman, Eclipse Working Group of Commission 10, IAU. 1988-92, Professor, National Astronomical Observatory. 1992-present, Professor Emeritus, Univ. of Tokyo and National Astronomical Observatory. 1992-present, Professor, Meisei University. 1998-present, President, Meisei University



Bibliography

John Hopper, JohnLX200@aol.com, <http://www.mapug.com>



John Hopper is an amateur astronomer living near Boston, Massachusetts, USA. He received a BSME from MIT in 1981, and currently works in the software consulting industry. He runs the Meade Advanced Products User Group (MAPUG) mailing list, an online community of 1300 amateur astronomers. He has succeeded in all 4 attempted expeditions to central solar eclipses. The annular eclipse in 1994 was seen from Mt. Chocorua, New Hampshire. The total eclipse expeditions were on the SS Canberra cruise from New York to Africa in 1973, a MAPUG land expedition in Aruba in 1998, and a Falcon 900 jet which he chartered to intercept totality over the Atlantic Ocean in 1999.

He also chases transits and meteor storms, and succeeded in viewing and videotaping both the grazing Mercury transit in Australia and the Leonid meteor storm in Spain last November.

Bibliography

Barrie W Jones, Head, Department of Physics and Astronomy, The Open University, UK

Research interests: My present research is in three areas of astronomy

- 1 orbital integrations of planetary bodies
- 2 radiative cooling of infrared telescopes
- 3 atmospheric phenomena related to solar eclipses.



Solar eclipse research

I have traveled to six total solar eclipses, and had clear skies for all but the most recent, on 11 August 1999. For my eclipse research, I have developed and used an array of microbarometers to record atmospheric waves with periods in the range 10-100 minutes. Such waves can, in principle, be generated by solar eclipses, though it has proved difficult to identify them. Current work is being carried out in collaboration with Dr Clive Wilson of the UK Met Office. I have also developed and used an array of photometers to record and analyse shadow bands.

Recent eclipse publications

Barrie W Jones, Shadow bands during the total solar eclipse of 26 February 1998, Journal of Atmospheric and Solar-Terrestrial Physics, volume 61, pages 965-974 (1999)

Barrie W Jones, A search for atmospheric pressure waves from the total solar eclipse of 9 March 1997, Journal of Atmospheric and Solar Terrestrial Physics, volume 61, pages 1017-1024 (1999)

Bibliography

Peter Chishala Kalebwe, Zambia

DATE OF BIRTH: 6 December, 1959, NATIONALITY: Zambian, MARITAL STATUS: Married with three children, FULL ADDRESS: The University of Zambia, Physics Department, P.O. Box 32379, LUSAKA, ZAMBIA, Telephone: +260-1- 293343, Telefax: +260+1-253952, Telex: ZA44370, E-mail: pkalebwe@natsci.unza.zm



SUBJECT OF SPECIALISATION: Physics, EDUCATIONAL QUALIFICATIONS:

a) 1973-1974: Kenneth Kaunda Secondary School and obtained Junior Secondary Certificate in Mathematics, English, Civics, History, General Science, Religious Knowledge, Geography.

1975-1977: Kenneth Kaunda Secondary School and obtained Senior Secondary Certificate - GCE 'O' Level in

Mathematics, English, Bemba Language, Physical Science; Agricultural Science; History and Commerce

(b) PROFESSIONAL QUALIFICATIONS

1979-1982: University of Zambia and obtained B.Sc. Degree (Credit) in Physics and Mathematics.

1985-1986: University of Birmingham (U.K.) and obtained M.Sc. Degree in Applied Radiation Physics

WORK EXPERIENCE

(a) 1988 to date: Actively involved in teaching at the University of Zambia in the following courses:

(i) P110 - Introductory Physics

(ii) P260 - Electricity and Magnetism including Atomic Physics

(iii) P340 - Electronics and Electrical Measurements
(iv) P495 - Supervision of student project on "Lead Content in Glazed Pottery".
(b) 1990: International Atomic Energy Agency: Training in the field of Nuclear Safeguards covering Radiation Physics, Nuclear Electronics and Reactor Physics. Extensive study tour of nuclear installations in Germany.
(c) 1982-1988: National Council For Scientific Research (NCSR) Worked in the field of X-ray Fluorescence Analysis; extensive analysis of uranium ore samples; intercomparison exercises. Installation of equipment such as the X-ray tube; the Germanium detector in the Nuclear Analytical Laboratory.

INTERNAL REPORTS AT NCSR

* Basitcho, P. Kalebwe, D. Sikabbuba: Sensitivity Calibration Curve for Multi-element Analysis in Uranium Ore. RIRU-AR 82*.

* Kalebwe, D. Sikabbuba: Determination of Gold and Cerium in Geochemical Samples by Standard Addition Method. RIRU-AR 83.

* J. Bastcho, P. Kalebwe, Mr. Maswabi: Analysis of Calcium in Hair for a Zambian Population Sample. RIRU-AR84 (RIRU -stands for Radioisotope Isotope Research Unit)

* Kalebwe, P. Hayumbu, D. Sikabbuba: Comparative Study of Uranium Determination by high resolution gamma spectroscopy and X-ray spectrometry. RIRU-AR 85.

* Kalebwe, D. Sikabbuba, M. Maswabi: Standardisation and Characterisation of Local Clay. RIRU-AR 87

WORKSHOP, SEMINARS AND SPECIALISED COURSES ATTENDED

(i) 1984- May-June: IAEA training on research and application of energy dispersive X-ray Fluorescence Analysis held at the National University of Singapore (Singapore).

(ii) 1984 - Oct-Nov. LUSAKA: IAEA training course on the use of minicomputers and micro processors in scientific research held at National Council for Scientific Research.

(iii) 1987- May: USSR- IAEA training course on Neutron Physics and Nuclear Data Measurement with accelerators and reactors.

(vi) 1989 Oct- Nov.: Leeds: Leeds University-University of Zambia link- six week course on illustrating digital electronics with the VELA.

(v) 1993: Curriculum writing workshop for radiography - held at River Motel in Kafue from 15th to 21st February.

(vi) 1993: Study visit to the Centre for Nuclear Science Techniques, Nairobi, 15th to 22nd March.

(vii) 1995 Nov.: Participant. Zambia Basic Sciences Seminar to review curriculum for first year Natural Science Students held at Rainbow Lodge, Livingstone, 18th to 21st November.

(viii) 1995 Nov. Resource person: Curriculum Review Workshop for Paramedical Department Evelyn Hone College held at Curriculum Development Centre, Lusaka from 24 - 26 of November.

(ix) 1996 June: Participant and member of the organising committee of the national workshop on the Physics and Modern Application of Lasers held at the University of Zambia from 27th to 28th of June.

(x) 1996 July: Participant, short course on using the internet for research held at the University of Zambia.

(xi) 1996 Aug: Participant: Seminar on Quality Assurance in Radiology held at hotel intercontinental in Lusaka from 1st to 3rd August.

(xii) 1996 Nov. Speaker: Physics Seminar on Medical Application of Radioisotopes held on 13th November in Physics Seminar Room.

(xiii) 1997 Jan.: Zambia Basic Sciences Seminar : Over-view of First Year Science Courses at UNZA-Siavonga, 27-31 January.

(xiv) 1997 Dec. Participant and member of organising committee: Second National Workshop on the Physics and Modern Applications of Lasers. University of Zambia from 3rd to 4th December

- (xv) 1998 Dec. Participant ; third curriculum review workshop for first year students held in Siavonga, 15 - 19 December
- (xvi) 1999 Mar. Participant and presenter: Eighth United Nations/European Agency Workshop on Basic Space Science: Explo-ration from Space held in Malfraga, Jordan 13 - 17 March
- (xvii) 1999 July Participant and presenter: Third African Workshop Regional on Communication 25 - 30 July 1999 at the Taj - Pamodzi Hotel, Lusaka, Zambia. Host: Department of Electrical and Electronic Engineering University of Zambia.
- (xviii) 1999 Aug. Participant and presenter: The African Regional Seminar on Safety and Security of Radiation Materials and Radiation Sources, August 11 - 13, 1999, Pamodzi Hotel, Lusaka, Zambia.
- (xix) 2000 Jan. Participant : Summer School in Astronomy organised by the South African Astronomical Observatory from 4th to 28th of January

COMPUTER LITERACY:

- (i) Programming in Basic, Fortran
- (ii) Use of computer packages - Word Perfect 5.1, Chiwrite , Amipro, Microsoft Word 6.0, Lotus spread sheet, INTERNET: - Information search using search engines. Electronic mail: EUDORA PEGASUS

ECLIPSE COORDINATION PROGRAMME: Chairman of the Safety and Scientific Sub-Committee of the above program.

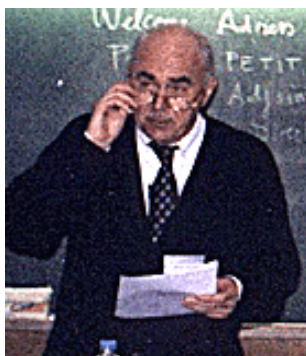
INTERESTS AND HOBBIES:

- (i) Reading - books and articles on astronomy, Lasers, medical physics, biology, electronics and automotive mechanics.
- (ii) Listening to music.
- (iii) Cycling
- (iv) Treasurer and member of local church community.

Bibliography

Serge Koutchmy, Astrophysicist at the Institute d'Astrophysique de Paris-CNRS, France

Currently at: Institut d'Astrophysique de Paris (CNRS) 8 Bis Bd Arago; F-75014 Paris (France) phone: 33144328056; Fax: 33144328001; e/mail: koutchmy@iap.fr



born: june 26, 1940 in Le Creusot (Saone et Loire-71-France)

married since 1960 to Olga Koutchmy, 2 children

Education:

1952-58 Ecole Speciale Schneider; Le Creusot-France

1959-63 State University Moscow-Russia

1963-1967 Orsay (France) University, Master degree in Physics

1972 PhD Paris University on Coronal Streamers Physics

Positions:

1967 Assistant Paris Observatory

1968 Research fellowship Centre National de la Recherche

Scientifique

1978 Permanent position at CNRS (tenure)

1992- now: Directeur de Recherche (DR) at CNRS(France)

1976-78 Fellowship at AFGL/Sacramento Peak Observatory-NM(USA)

1986-88 Senior Research Associate at NSO/SacPeak Observatory

Selected Activities:

*Observed 14 Total Solar Eclipses at ground, over seas, using aircrafts (including the Supersonic Concorde 001) and in space; models of F-corona and coronal structures;

*Developped several solar IR experiments at Pic du Midi Observatory 1st absolute measurements of solar intensities at 18 to 24 microns- 1968; 1st sunspot photometry at 3.75 microns;

*Developped IR photometry at the Sacramento-Peak Obs. VTT (1977);

*Developped a prominence magnetograph on the largest coronagraph of Word-53 cm aperture- of the Kislovodsk High Altitude Observatory (1980-82);

*P.I. of the spaceborne experiment 'Night Sky Imaging' for the flight of the 1st french Spationaute on Saliout 7 (1982); co-I of the 2d Astron.Exp-t PIRAMIG on Saliout 7;

*Developped the 1st mirror coronagraph at NSO/SP (1987); 1st optical coronal image ever made with a mirror coronagraph;

*Co-I of the C2/Lasco coronagraph of SoHO (1988); design of the SWATH spaceborne mirror coronagraph;

*P.I. of the CFHT eclipse coronal experiment on Mauna-Kea to point the largest optical telescope ever used toward the Sun; best resolution ever acheived of an image of the W-L corona; movie of a coronal plasmoid;

*Performed 1st observations of SXR polar flashes on Yohkoh at ISAS-Japan;

*Performed 1st measurements of the solar prolateness at NSO/Sacramento-Peak Observatory (1997-98) using coronagraphs and the VTT (DST);

*co-I on the Solar Probe coronal exp-t (2000);

Publications: more than 400 scientific papers published from 1967 to now; the list of the latest can be found on the URL: www.iap.fr/BaseDeDonnees/

Books: "Total Eclipses", 1998, Masson Ed. 300p (in French); re-edited and translated in English at Springer-Praxis Series in Astron. (1999), etc.

Participation as invited contributor and/or chairman in the writing of 6 books, starting with the Illust. Solar Glossary (1978).

5 Selected papers over 30 years:

"Morphological Particularities of the Solar Corona" (1969), Astrophys. Letters, 3, 215-220

"Study of the June 30, 1973 trans-polar coronal hole" (1975) Solar Phys. 51, 399-410

"Short Periods coronal oscillations: observations and interpretation" (1983), Astr. Astrophys. 120, 185-191

"Space-borne Coronagraphy" (1988) Space Science Review, 47, 95-143 "Coronal Streamers" (2000), in "The Encycl. of Astron. Astrophys." Institute of Physics Pub. England

(May 2000)

Bibliography

Ed Krupp, Griffith Observatory, USA

Dr. E.C. Krupp is an astronomer and Director of Griffith Observatory in Los Angeles. A graduate of Pomona College in Claremont, California, he earned his



M.A. and Ph.D. in the Department of Astronomy at U.C.L.A., where he studied the properties of rich clusters of galaxies under the guidance of the late Dr. George O. Abell. Now recognized internationally as an expert on ancient, prehistoric, and traditional astronomy, Dr. Krupp has visited more than 1600 sites throughout the world and regularly leads field study tours to exotic locations that have astronomical and archaeological interest. He is the author of several books on the celestial component of belief

systems, including In Search of Ancient Astronomies, Archaeoastronomy and the Roots of Science, and Echoes of the Ancient Skies. He also writes astronomy

books for children illustrated by his wife, Robin Rector Krupp, including *The Comet and You*, *The Big Dipper and You*, and *The Moon and You*. Their most recent science book for children, *The Rainbow and You*, was published in April, 2000. Two of Dr. Krupp's books have won national prizes from the American Institute of Physics.

Dr. Krupp's fourth book on ancient astronomy, *Beyond the Blue Horizon-Myths and Legends of the Sun, Moon, Stars, and Planets* was published in 1991 and is a worldwide comparative study of celestial mythology. His newest book for adults, *Skywatchers, Shamans, & Kings-Astronomy and the Archaeology of Power*, was published by John Wiley & Sons, Inc., in 1997.

Dr. Krupp is a contributing editor for *Sky & Telescope* and writes a monthly column, "Rambling Through the Skies," for this nationally distributed magazine. It emphasizes the cultural component of astronomy. In 1989, he received a national prize from the Astronomical Society of the Pacific-the Klumpke-Roberts Award for outstanding contributions to public understanding and appreciation of astronomy, and in 1996 he received the G. Bruce Blair Medal for substantive contributions to amateur and public astronomy from the Western Amateur Astronomers. On 14 February 1999, he was profiled in *Los Angeles Times Magazine* and featured on the cover.

E.C. Krupp lectures frequently on archaeoastronomical subjects as well as on other astronomical topics, including fads, myths, and pseudoscience. In spring, 1983, he delivered a lecture in the prestigious annual L.S.B. Leakey Society lecture series. He has presented the invited Mossman Lecture at McGill University and the BBV Foundation Lecture at the Instituto de Astrofísica de Canarias. He was the on-camera host of the "Project: Universe" telecourse, which has been broadcast throughout the country and internationally and repeated on numerous occasions. He appears often on Los Angeles television and radio, and he appeared with Johnny Carson on the "Tonight Show." Other national appearances include "Nightline," "America," "The MacNeil/Lehrer Report," "The Late, Late Show" (Tom Snyder), CNN News, and "The Human Quest." He was featured in a videotape for home use, "Halley's Comet, a Viewer's Guide" (Four Point Entertainment). E.C. Krupp is a past member of the Board of the Astronomical Society of the Pacific, past Chairman of the Historical Astronomy Division of the American Astronomical Society, an advisor for the American Rock Art Research Association, a Fellow of the Committee for Scientific Investigation of Claims of the Paranormal, a member of the American Astronomical Society and the International Astronomical Union, listed in *Who's Who in America* and similar compilations, and is a Fellow of the Explorer's Club.

Dr. Krupp has led 30 field study tours for U.C.L.A. Extension and other organizations: to Mexico-8 times, to Egypt-4 times, to Central America and Peru, to the Mediterranean, to China-4 times (including Inner Mongolia, Tibet, and Mongolia and the 9 March 1997 total solar eclipse), to Peru, to South America (for more ancient sites and Halley's Comet), to Chile and Easter Island-2 times (including the 3 November 1994 total solar eclipse), to Mexico/Belize/Guatemala, to Guatemala, to Guatemala and El Salvador, to Greece, to Turkey-two times, to the 11 July 1991 total solar eclipse in the Sea of Cortez, to Israel, Jordan, and Sinai, and most recently (June, 2000) to Iran. He has participated in two other eclipse land expeditions (Mexico and Indonesia), and as a lecturer and eclipse viewing coordinator, he has accompanied cruises to the 12 October 1977 total solar eclipse in the northern Pacific, to the Mediterranean, Mesoamerica (four times), southeast Asia (including the 24 October 1995 total solar eclipse), the Caribbean (including the 26 February 1998 total solar eclipse), and the Black Sea (including the 11 August 1999 total solar eclipse). Allied in May, 1998, with Dr. Zahi Hawass, Director General of the Giza Plateau, he presented the case against speculative and erroneous "Orion Mystery" claims about the astronomy connected with the Giza pyramids and the Sphinx on a cruise through Alaska's Inside Passage.

Dr. Krupp's primary responsibility at this time is the complete renovation and expansion of Griffith Observatory, a \$58-million project now in design. Construction is scheduled to begin in January, 2002. This means he now performs two jobs for the price of one on behalf of Griffith Observatory in a workweek that violates the law of conservation of energy and the speed of light.

Bibliography

Jean Marc Lariviere, Canada

Born in Hawkesbury, in Eastern Ontario, Jean Marc Larivière moved to Toronto in 1976 to study physics and mathematics. After successfully directing a number of plays for the university theatre company he became a translator and conference interpreter all the while pursuing his interests in writing, music and film.

In 1982, he wrote and directed his first film *revolutions*, at last, forever and ever which garnered critical acclaim at the Toronto International Film Festival, the Paris Cinematheque and the British Film Institute.

In 1986, he produced and directed *DIVINE SOLITUDE*, a documentary on the spellbinding work of dancer/choreographer Nana Gleason, which was selected as a finalist at the American Film and Video Festival and won the Silver Plaque at the Dance On Camera, in New York.

In 1996, in collaboration with Marie Cadieux he wrote and directed *The Last of the Franco-Ontarians* a moving look at the critical role of minority cultures in the age of globalization which was nominated for a G meau for best cinematography and won an honorable mention at the Hot Docs Festival in Toronto. With *SHADOW CHASERS* his latest film produced over a two and half year period and shot on four continents he offers once again a very personal work in the form of a poetic meditation on how humans make sense of the world via their senses.

Bibliography

Alfonso Lopez Borgono, Spain



Alfonso L pez Borgo oz, archeologist and historian of science, has more than twenty papers published in scientific meetings or magazines about roman funerary world, archeoastronomy or history of astronomy. Work actually in the City-hall of Castelldefels (Spain) and was the director for three years of "Universo, astronom a y astron utica", and in this moment is member of the team of redaction of "El Esc ptico" and "Tribuna de astronom a y Universo", magazines for the divulgation of Science and Astronomy.

Bibliography

David P. Makepeace, Canada

David is currently directing 18 episodes of *ELVIRA KURT'S ADVENTURES IN COMEDY* for The Comedy Network and Armstrong Entertainment.

"*HOOKED ON THE SHADOW*", his documentary about solar eclipse chasers for *SPACE/BRAVO!* that was shot in Aruba in 1998 and south-eastern Turkey in 1999, **WON THE BRONZE AWARD, SCIENCE & RESEARCH, at WORLDFFEST HOUSTON** in April 2000, and is distributed internationally by Mundovision in Montreal.



Makepeace's 1998 calling-card short film entitled "*CLEVELAND IN MY DREAMS*", from the *LAWRENCE BLOCK* short story starring *DONALD BURDA* and *SAUL RUBINEK*, has screened at multiple festivals in North America, and **WON THE GOLD AWARD FOR SHORT COMEDY ADAPTATION** at *WORLDFFEST*

HOUSTON in April 1999, and THREE FILMMAKING AWARDS including BEST CANADIAN ENTRY at the CANADIAN INTERNATIONAL ANNUAL FILM AND VIDEO FESTIVAL in British Columbia, also in 1999.

His first feature-length film entitled "SIDE FLASH" starring MICHAEL RILEY, about the spiritual awakening of a low-life Atlanta hustler who gets hit by lightning, has recently received development financing, with a preliminary draft to be tabled in the winter of 2000.

Honing his skills to direct his first feature, Makepeace has observed directors PAUL LYNCH (F/X: The Series), SAUL RUBINEK (Jerry & Tom), JOE MANTEGNA (Lake Boat), and DAVID WU (Power Play).

Originally from Montreal, the Makepeace family moved to Toronto in the late 1960's where David was introduced to music and the performing arts at a young age, along with his two brothers Tony and Chris. Then a producer with CBC Radio, David's mother encouraged a full exploration of the arts, and today, each of the brothers enjoy distinct and successful careers in visual media.

As a youngster David attended numerous summer workshops in DRAMA, FILMMAKING, ART & PHOTOGRAPHY at TRINITY COLLEGE in Toronto, and by age 12 had demonstrated a flair for experimental filmmaking in multiple formats and with varied media and techniques. At 14, while on tour as a soprano with the CANADIAN OPERA COMPANY, Makepeace began plotting a career in film.

During his school years, Makepeace started DIRECTING AMATEUR FILMS and ACTING IN TELEVISION COMMERCIALS AND DRAMAS. His talent as a young filmmaker won him TORONTO FESTIFILM AWARDS in 1978, 1979 and 1983, and a CBC TELEFEST AWARD in 1984.

David graduated from JARVIS COLLEGIATE INSTITUTE (1982) with a credit in FILM RESEARCH and went on to RYERSON POLYTECHNIC UNIVERSITY'S RADIO AND TELEVISION ARTS DEGREE PROGRAM (1985). At Ryerson, David was awarded with a SCHOLARSHIP FOR ACHIEVEMENTS IN RADIO ANNOUNCING, and still maintains membership in ACTRA PERFORMERS GUILD.

With the revolution in new video technology by 1986, Makepeace began accepting contract work and started a small production company. By age 30, he had developed a substantial and loyal clientele of individuals and production companies alike, employing him in the key creative aspects of production.

As VIDEO DIRECTOR & PRODUCER David has completed countless shows - from corporates and promotionals for GM, FORD, UNITED WAY, CENTERSTAGE (Baltimore) and TRAFALGAR CASTLE, to annual travel programs for the world's biggest brokerage firm, MERRILL LYNCH.

His assignments as CAMERAMAN number equally in the hundreds - SHOOTING SOLAR ECLIPSES IN ARUBA AND TURKEY, and fulfilling contracts in THE GREEK ISLANDS, THE CARIBBEAN, HAWAII, MONTE CARLO, PARIS, THE FLORIDA EVERGLADES, ARIZONA, CALIFORNIA, and the ROCKY MOUNTAINS.

As VIDEO EDITOR, Makepeace has cut over 500 DEMO REELS, and maintains a personal client base of film directors and artists, including some of Canada's best-known film and television actors.

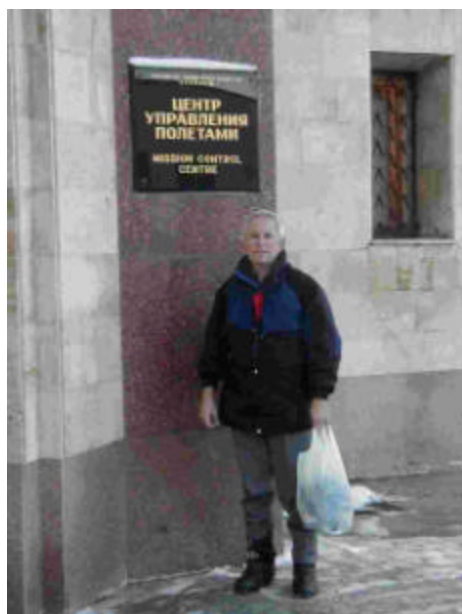
Bibliography

Paul Maley, USA

Paul's life-long interest in observing astronomical phenomena has been largely focused on planning and executing expeditions to observe eclipses of the sun. Inspired by the late Aline B. Carter, former poet laureate of Texas who taught astronomy at the Witte Museum in San Antonio, Texas, his observational interests have expanded to include comets, asteroids, meteor showers, occultations of stars by the moon and of stars by minor planets, eclipses of the moon, and artificial earth satellites. His travels have taken him to 162 countries so far.

Paul D. Maley has worked at the NASA Johnson Space Center as a government contractor since 1969. He is currently employed by a prime contractor as Manager of International Spaceflight Operations overseeing a group of flight controllers at Mission Control Center-Moscow and Mission Control Center-Houston in support of the International Space Station. His academic credentials include a B.S. (University of Texas, Pan American Campus), M.S., and M.B.A (University of Houston - Clear Lake).

Paul developed Ring of Fire Expeditions (ROFE) to serve as a public outreach by the NASA Johnson Space Center Astronomical Society. Through this, valuable international cooperation has been achieved in the planning and execution of many challenging expeditions, including 23 ROFE expeditions since 1970 to view a total or annual eclipse of the sun.



As an amateur astronomer Paul D. Maley's most significant accomplishments include:

1) The first reported observation of a possible satellite of an asteroid in 1977. Co-authoring the report with D.W. Dunham in 1978, it set off a concerted effort by amateur astronomers and professionals to monitor asteroid occultations. Though this specific discovery was unconfirmed, it was in 1994 that the Galileo spacecraft beamed back the first image of a natural satellite of the asteroid Ida, thus proving the existence of a hitherto unknown population of solar system objects (see *Asteroids*, edited by T. Gehrels, p. 443).

2) The finding that inactive earth satellites could have an impact on professional astronomical discoveries. Paul determined that the cause of the infamous Aries (Perseus) flasher, an object that caused a stir in the

astronomical world in 1985 was caused by sunlight glinting off a piece of Russian space debris (see *Astrophysical Journal*, vol. 317, 1987, L39-44). Sometime later, Greek astronomers published a paper and photograph propoing to show a bright meteor impact on the dark side of the moon. Paul clearly determined that this event was caused by an inactive American satellite passing directly in the field of view at the time (see *Icarus*, vol. 90, April 2, 1991, pp. 376-377). These two events alerted the community to consider the importance of the ever increasing population of earth orbiting man-made objects.

3) An initiative adopted by the United Nations Committee on the Peaceful Uses of Outer Space to promote observation of the Space Shuttle and Mir station by planetariums around the world during the 1992 International Space Year. Paul computed visibility predictions of these bright space objects which were faxed by the UN to planetaria in 34 countries.

4) Only photo ever taken of a complete grazing occultation process of a star by the moon. See *Sky & Telescope*, April 1982, p 426.

5) First photo of a group of 7 geostationary communication satellites in one frame. See *Aviation Week & Space Technology*, March 3, 1986, p 73.

6) First photo of reentry of space shuttle orbiter. See *Aviation Week & Space Technology*, February 27, 1984, p 40.

7) First photo of reentry of space shuttle external tank. See *Aviation Week & Space Technology*, April 26, 1984, p 21.

8) Organizer of most productive expedition to map the shape of an asteroid. See *Astronomy*, February 1984, p 51.

9) First photo of an occultation of a star by an asteroid. See *Sky & Telescope*, March 1980, p 261.

A great portion of Paul's life has been in earth satellite observation. This includes having documented the reentry of Cosmos 166 rocket in 1966, several re-entries of the Space Shuttle's External Tank, about 12 re-entries of the Space Shuttle itself enroute to landing in Florida, and continual observation projects involving space debris. He was the youngest person ever to have an independent observing site under the Smithsonian Astrophysical Observatory's Moonwatch Program in 1960 (in San Antonio, Texas). In 1975 he was elected a member of the Royal Astronomical Society. In recent years Paul has presented papers at the International Astronautical Federation congresses on his observations of Iridium spacecraft, Ariane IV rocket bodies, and other visual satellite photometry applications. In June 2000, he was invited to present a paper before the 18th Interagency Debris Committee describing his studies of Russian Proton 4th stage ullage motors which are one source of space debris in geostationary transfer orbits.

Paul has utilized Global Positioning System receivers to initially survey a volcanic area in conjunction with the Institute of Geology and Geochemistry in Petropavlovsk-Kamchatsky in the Russian far east in 1991. Then through agreement with Trimble Navigation he began to use Trimble GPS receivers to establish eclipse sites in the Amazon, Africa, Australia and Asia as well as for sites of 19th century eclipses in the USA. Other noteworthy activities have included observation of a 1 meter size ullage motor #20698 at an altitude of only 92 miles with the unaided eye; the Russian Mir station from the middle of Seoul, Korea; from a cruise ship docked in Port Said, Egypt; and from a moving train between Bulgaria and Romania; Iridium satellite in broad daylight from Scotland and Australia; night time Iridium flares from Iran, Crete, Turkey, France and Russia; observed 3 total lunar eclipses in one calendar year (1982); photo of two Russian space stations in one frame as published in NATIONAL GEOGRAPHIC MAGAZINE; consultant to the Pakistan Upper Atmosphere and Space Administration (1988); interviewed on television stations in Gabon, Zambia, and China in connection with safe eclipse observation procedures prior to solar eclipses; invited speaker on United Nations Day at the University of Miami (1993); sighted noctilucent clouds in Finland.

Paul has also led expeditions to Venezuela, Mexico and Sudan to attempt to improve the lunar polar diameter; led expeditions to Guyana, Australia and France to observe occultations of stars by asteroids; observations of 4 consecutive orbits of the Space Shuttle from the tip of South America in one night; instructed Shuttle crew members of the ill-fated Challenger on how to observe Halley's Comet in 1985; sighted a simultaneous aurora and naked eye comet from a commercial flight over the Pacific Ocean in 1997; payload integration engineer for the Midcourse Space Experiment satellite MSX, whose Delta rocket tank reentered and pieces of which were recovered in central Texas; organized and led expeditions to observe grazing occultations of stars by the moon and solar eclipses where Shuttle astronauts have also been observers; published popular articles on how to successfully observe occultations, earth satellites and eclipses in journals in the USA, China, France and Italy; presented lectures on astronomical topics in Singapore, Spain, Poland, Denmark, Peru, Mexico, Belgium, Jordan, South Africa, Australia, France, England, Canada, and Japan. One of his most prized possessions is a letter from the late astronomer Carl Sagan requesting a copy of one of Paul's technical papers.

Funding has been provided to Paul for only a few projects from the Federation of American Scientists, National Geographic Society and NASA, but the majority of his expeditions have been conducted on his own. One of his more exotic assignments was to await the launch of a rocket with an expendable tether system while staying at a Club Med hotel. Another was the 1995 Shuttle mission of the Italian Tethered Satellite System where he obtained low light video of the free flying tether (from Cairns, Australia) which was unexpectedly severed from the Shuttle soon after its deployment.

Paul's unique videos of satellites and meteors have been used to demonstrate educational aspects of observation and have been shown on the Discovery Channel, Chinese television, The Learning Channel, ABC and CBS News, in England, Belgium and Germany, as well as having been appended to post-Shuttle mission flight footage by NASA. He has had a long interest in meteor shower observation, having witnessed a dramatic return of the 1966 Leonid Meteor Storm and then a brief outburst from the Draconid Shower in 1972 when he first used an electronic image intensifier. He was also a real-time eyewitness to the explosion of Apollo 13 while it was on its way to the moon.

On the personal side, Paul enjoys climbing and photographing active volcanoes (so far Hawaii, Aeolian Islands, Costa Rica, Russia, Indonesia, Papua New Guinea, New Zealand, Mexico, USA) and has raised basset hounds and participated in automobile rallies. He currently jointly occupies the same living space with two cats and with his wife Lynn Palmer whom he married in Suva, Fiji in 1996. All reside in Clear Lake City, Texas, a suburb of Houston. While many of Paul's endeavors have born fruit, he continues a so-far frustrating and unproductive comet hunting project begun in 1973 and enhanced with the purchase of 25x150 binoculars in Japan in 1980. It is one life-long goal to discover a comet. In the meantime, he is a continual contributor to STARSCAN, the publication of the NASA Johnson Space Center Astronomical Society to which he has belonged since beginning work at the Center two months before the first moon landing. He has jogged in Kuwait, Chile, Oman, Barbados, Sri Lanka, and Macao and hopes one day to be able to afford to retire to a dark sky location somewhere in the southwestern USA where he can continue his observations unimpeded by light pollution.

See more details on his WebPages

Bibliography

Jay Pasachoff, Willams College, USA

Jay Pasachoff, a veteran of 30 solar eclipses, is Chair of the Working Group on Eclipses of the International Astronomical Union. He is Field Memorial Professor of Astronomy and Director of the Hopkins Observatory at Williams College, Williamstown, Massachusetts, USA. He is the author of observing guides, especially the Peterson Field Guide to the Stars and Planets (Houghton Mifflin, 2000), and coauthor of the Cambridge Eclipse Photography Guide (Cambridge University Press, 1993). Prof. Pasachoff's scientific research has largely been concentrated on the solar chromosphere and corona, including recent studies of the heating of the solar corona and of the liaisons between eclipse and space observations of the corona.



Bibliography

Francis Podmore, Zimbabwe

Born and brought up near Chester, England, and obtained my first degree from Downing College, University of Cambridge in 1963. I have been a lecturer in the Physics Department of the University of Zimbabwe for over 35 years - teaching a wide variety of courses, including astronomy and geophysics. My PhD (awarded in 1985 by the University of London) was for gravity study of the Graet Dyke, Zimbabwe. Other geophysical research includes magnetic surveys, earth tide

observations and heat flow measurements in boreholes. Coming to the lovely dark skies of Africa, I joined the local Astronomy Society and have learned much from the meetings. Recently I attended a month-long astronomy Summer School in Cape Town and recorded the starlight from the variable XX Pyxis. I have given many talks on astronomy and space to schools and other groups, but have yet to see a total solar eclipse - I was under thick cloud in Cornwall last August!! But while England I started an appeal for unused and unwanted eclipse viewers for 'our' eclipses, and have been overwhelmed by the response.



Bibliography

Nick Quin, England

I saw my first total solar eclipse in Java in 1983. After a gap of several years I went to Finland in 1990 but was clouded out. Since then I have successfully viewed the eclipses of 1991 (Mexico), 1994 (Annular, Morocco and Total, Chile), 1995 (India), 1998 (Venezuela) and 1999 (France). I am interested in Astronomy in general, and built a 'Cookbook' CCD camera to use with my Meade LX200 telescope. After being secretary of my local astronomical society for a number of years, I currently sit on the council of the UK's Federation of Astronomical Societies with responsibility for the Web pages. I have been able to combine my other interests in electronics, computing and photography to develop an automatic system for photographing solar eclipses.



I pay for my eclipse expeditions by working as a software developer for Andersen Consulting, close to my home in West Sussex in the United Kingdom.

Bibliography

Allan Ridgeley, B.Sc, M.Inst.P., C.Phys., England

Graduated: Liverpool University (1958). Current Position: consultant to Roseland Community Observatory, Cornwall Allan Ridgeley's main areas of expertise are in spectroscopy and instrumentation. He has worked for 41 years in Government research laboratories, namely AERE Harwell, Culham Laboratory and Rutherford Appleton Laboratory.



His main activity at AERE Harwell was in the spectroscopy of actinide elements. At Culham Laboratory he worked on solar physics and atomic physics research. His work here included participation in a rocket-borne experiment launched during the 1973 solar eclipse over Mauritania. At Rutherford Appleton Laboratory his areas of work included space research, plasma physics research and project management. This work included involvement in the GIOTTO mission to Halley's comet and participation in Prof. Jay Pasachoff's expedition to Romania during the 1999 solar eclipse. He has 47 publications in solar physics, atomic physics, instrumentation and calibration techniques.

Bibliography

Vojtech Rusin, Slovakia



Birth Date: January 7, 1942, Birth Place: Spisske Hanusovce, Slovakia. Marital Status: Married to Anna Rusinova. Children: Vojtech, Jan
Office Address: Astronomical Institute, Slovak Academy of Sciences, 059 60 Tatranska Lomnica, Slovakia, Phone: +421-969-4467 866, Fax: +421-969-4467 656, Email:vrusin@auriga.ta3.sk
Home Address: 059 60 Tatranska Lomnica 135, Slovakia, Phone: +421-969 4467 609
Education: 1948-1956: Primary school at Spisske

Hanusovce. 1956-1959: High School (Gymnasium) at Kezmarok. 1964-1970: Comenius University, Bratislava. 1975: RNDR. , Charles University at Prague. 1978: PhD. Slovak Academy of Sciences, Bratislava. 1992: DrSc., Slovak Academy of Sciences at Bratislava

Present Position: Senior astronomer, solar physicist at Astronomical Institute, where I am working for all time (since 1959). Member of the Presidium of the Slovak Academy of sciences (for 2 terms: 1995-1998, 1998-2001)

Field of research: solar prominences and solar corona. Mainly, dynamics, time-latitudinal development and distribution, short-term oscillation in the solar corona, coronal index of solar activity, solar eclipses: physical properties , structural and morphological studies of the white-light corona (I participated in 11 eclipses since 1973), member of several scientific meetings (domestic and international), 4 PhD students.

Publication activity: of about 180 papers (author and co-author), 70 talks in domestic and international meetings, 2 books, SCI citations: more than 200, a lot of papers and lectures for public, co-editor of 2 Proceedings (1994 and 1999)

Membership: International Astronomical Union, American Geophysical Union, European Astronomical Society, Czech Astronomical Society, Slovak Astronomical Society (Chairman for 2 terms, in 1992-1995 and 1995-1999), Slovak Physical Society.

Hobby: Photography

Bibliography

Olivier Staiger, Switzerland

Eclipse chaser, born: 24 January 1959, living: in Geneva Switzerland, job: employed at Prestige Rent-a-Car, limo driver and deluxe car rentals, www.prc.ch, hobby solar eclipse chasing: since 1994 (5 total, 4 annular, 4 partial. Plus several lunar eclipses and a rare double occultation).



Bibliography

John Steele, Department of Physics, University of Durham, England

Book: J. M. Steele, *Observations and Predictions of Eclipse Times by Early Astronomers* (Kluwer Academic Publishers, Dordrecht, 2000), 336 pp., ISBN 0-7923-6298-5.



Papers in Learned Journals:

J. M. Steele and F. R. Stephenson, "Lunar Eclipse Times Predicted by the Babylonians," *Journal for the History of Astronomy*, 28 (1997), 119-131.

J. M. Steele, "Solar Eclipse Times Predicted by the Babylonians," *Journal for the History of Astronomy*, 28 (1997), 133-139.

J. M. Steele, F. R. Stephenson and L. V. Morrison, "The Accuracy of Eclipse Times Measured by the Babylonians," *Journal for the History of Astronomy*, 28 (1997), 337-345.

J. M. Steele and F. R. Stephenson, "Astronomical Evidence for the Accuracy of Clocks in Pre-Jesuit China," *Journal for the History of Astronomy*, 29 (1998), 35-48.

J. M. Steele, "Predictions of Eclipse Times Recorded in Chinese history," *Journal for the History of Astronomy*, 29 (1998), 278-285.

J. M. Steele, "On the Use of the Chinese Hsuan-ming Calendar to Predict the Times of Eclipses in Japan," *Bulletin of the School of Oriental and African Studies*, 61 (1998), 527-533.

J. M. Steele and F. R. Stephenson, "Eclipse Observations made by Regiomontanus and Walther," *Journal for the History of Astronomy*, 29 (1998), 331-344.

J. M. Steele and F. R. Stephenson, "Canon of Solar and Lunar Eclipses for Babylon: 750 B.C. - A.D. 1," *Archiv für Orientforschung*, 44-45 (1997-1998), 195-209.

J. M. Steele, "Eclipse Prediction in Mesopotamia," *Archive for History of Exact Sciences*, 54 (2000), 421-454.

J. M. Steele, "A Re-analysis of the Eclipse Observations in Ptolemy's *Almagest*," *Centaurus*, 42 (2000), 89-108.

J. Fermor and J. M. Steele, "The Design of Babylonian Waterclocks: Astronomical and Experimental Evidence," *Centaurus*, in press.

J. M. Steele, "A 3405: An Unusual Astronomical Text from Uruk," *Archive for History of Exact Sciences*, in press.

Invited Chapters: J. M. Steele, "Appendix: The Eclipse Texts," in A. J. Sachs and H. Hunger, *Astronomical Diaries and Related Texts from Babylonia*, Volume 5 (Vienna, forthcoming). [A discussion of the Late Babylonian Eclipse Texts published in this volume.]

Papers in Conference Proceedings: J. M. Steele, "Babylonian Predictions of Lunar and Solar Eclipse Times," *Bulletin of the American Astronomical Society*, 28 (1996), 1305.

J. M. Steele, "The Latest Dated Astronomical Observation from Babylon," in A. R. Millard (ed.) *Archaeological Sciences '97*, in press.

Book Reviews: J. M. Steele, "Review of S. C. McCluskey, *Astronomies and Cultures in Early Medieval Europe*," *Astronomy Now*, 13/1 (1999), 12.

J. M. Steele, "Review of D. E. Duncan, *The Calendar*," *Astronomy Now*, 13/4 (1999), 12.

J. M. Steele, "Review of F. Rochberg, *Babylonian Horoscopes*," *Journal of the American Oriental Society*, 119 (1999), 524-525.

J. M. Steele, "Review of E. Reiner and D. Pingree, *Babylonian Planetary Omens, Part 3*," *Journal for the History of Astronomy*, 30 (1999), 312-313.

J. M. Steele, "Review of N. M. Swerdlow, *The Babylonian Theory of the Planets*," *Journal of the American Oriental Society*, 119 (1999), 695-696.

J. M. Steele, "Babylonian Lunar Theory Reconsidered (Essay Review of L. Brack-Bernsen, *Zur Entstehung der babylonischen Mondtheorie*)," *Isis*, 91 (2000), 125-126.

J. M. Steele, "Review of N. M. Swerdlow (ed.), Ancient Astronomy and Celestial Divination," Annals of Science, in press.

J. M. Steele, "Review of A. Jones, Astronomical Papyri from Oxyrhynchus," Journal of the American Oriental Society, in press.

Bibliography

Peter Tiedt, Enterprise 2000 Project Team Natal Portland Cement (Pty) Ltd, South Africa



Mr Peter Tiedt MIMM, age 54, currently IT Project Team Leader for Natal Portland Cement Company, based in Durban South Africa. Has had a life long interest in space, astronomy, and especially celestial phenomena such as eclipses. Peter has been waiting all his life for a solar eclipse to come to his sub-continent. A member of MENSA since 1972, and active in hobbies of birding, wildlife and computing. Peter maintains the website www.eclipse.za.net which is devoted to the total solar eclipses of 2001 and 2002.

Divorced with three children, son of 23, son of 13 and daughter of 11. Lives in Westville, near Durban, South Africa with Sheelagh Hayes.

MIMM = Member of the Institute of Marketing Management, South Africa

Peter Tiedt Enterprise 2000 Project Team Natal Portland Cement (Pty) Ltd, Phone: +27 (0)31 450 4441, Fax: +27 (0)31 465 3972, Cell: +27 (0)83 409 5956, Business e-mail: peter.tiedt@npc-eagle.co.za, Home e-mail: petert@itikzn.co.za

Bibliography

Ovidiu Vaduvescu, Canada

Present - PhD Student in Astrophysics with York, University, Toronto, Canada;



1997-2000 - Computer programmer, Mississauga, Canada;
1998-1999 - Co-organiser of EuRo Eclipse 99 with Romanian Society for Meteors and Astronomy (SARM); 1994-1997 - PhD in Astronomy, Babes-Bolyai University of Cluj-Napoca, Romania;
1991-1997 - Research Assistant with the Astronomical Institute of Romanian Academy, Bucharest, Romania;
1996-1997 - High-school teacher of Computer Sciences and Astronomy, Bucharest, Romania;
1986-1991 - MSc in Mathematics and Computer Sciences, Craiova, Romania;
Interests in Astronomy: Asteroids & Comets, Occultations & Appulses, CCD Observations, Astronomical Software, Celestial Maps, Astronomical Catalogues, Database Archival, Astrometry, Image Processing, Solar Eclipses, Public Outreach;

Interests in Astrophysics: Extragalactic Astronomy, Local Group, Infrared Observations;

Skills in Computers: Software Development (Pascal/Delphi, C/C++, FORTRAN, Windows, UNIX/Linux, VMS), Internet (Perl/CGI/HTML);

Resume: <http://www.geocities.com/oviduiuv/cv.htm>

Bibliography

Felix Verbelen, Belgium

Born 1944. Jackie Verhoeven's husband for over 30 years and father of Tanja and Walter. Working as Risk Control Engineer for a major British Insurance Company since 1969. Involved in astronomy for more than 40 years and particularly in

Mesoamerican astronomy during the last 15 years. At present chairman of MIRA Observatory, the oldest of public observatories in Belgium.



Bibliography

Erwin Verwichte, Departement Zonnestraling, Koninklijke Sterrenwacht van België, Ringlaan 3, B-1180 BRUSSEL, BELGIE. tel: +32(0)2 3730220, fax: +32(0)2 3730224, email: Erwin.VERWICHTE@oma.be



My name is Erwin Verwichte. I am 27 years old, born and raised in Genk in Belgian Limburg, where I made my first astronomical footsteps with the youth astronomy club Descartes. I completed my BSc degree in Physics at the Limburgs Universitaire Centrum and the Katholieke Universiteit Leuven. In Leuven I presented by honours thesis which dealt with flow instabilities at the heliopause. I then went to the Solar Theory group in St Andrews, Scotland to obtain my PhD degree. My thesis topic was nonlinear MHD wave dynamics with relevance to the solar corona. After 4 years I started a post-doctoral

fellowship at the Royal Observatory of Belgium where I work on data from the EIT and TRACE instrument, with interest in the long-term global evolution of the solar corona and coronal wave observations and interpretations.