



PACIFIC CIRCLE NEWS

After many well-intentioned promises, the *Pacific Circle Membership Directory* has finally been completed and is inclosed with this issue. Special thanks go to Roy MacLeod and the History of Ideas Programme at Australian National University for seeing the Directory through to completion. Please advise the editor of any additions or corrections to your entry. We are especially anxious to have fax numbers and e-mail addresses for as many members as possible.

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The Science of Pacific Island Peoples Conference, sponsored by the **University of the South Pacific** and the Government of France, and co-sponsored by the Pacific Circle, took place in Suva, 6-10 July 1992, at the Laucala Bay Campus of the University. Ninety-five participants from 20 countries presented some 60 papers. Program co-chairs were PROFESSOR JOHN MORRISON and MRS. ESTHER WILLIAMS. The opening address was delivered by Fiji's Prime Minister, SITIVENI RABUKA; and the closing address by SIR TOM DAVIS, former Prime Minister of the Cook Islands.

The conference was organized around four major themes:

- Traditional Science and Technology in the Pacific
- Impact of External Contact on Pacific Science
- Modern Value of Traditional Knowledge
- Science Policy and Traditional Science

The following "overall conclusions" and "recommendations" are quoted from the Conference Report:

The general consensus of the participants was that the Conference had been very successful in drawing attention to the importance of traditional science and technology in many aspects of modern Pacific life. The interaction of people from a wide range of disciplines proved very stimulating to all and much of the informal discussion will lead to future cooperative research.

While the meeting noted several topics that need urgent attention, it should be noted that the areas in which traditional knowledge is rapidly dying out were not specifically identified and so urgent requirements for action in recording this information were not listed

There is urgent need to consider the position of traditional knowledge in education at all levels in the Pacific Islands. In addition, the greater involvement of Pacific Islanders in teaching and research in the recording and utilisation of traditional knowledge is seen as requirement for the scientific well-being of the Region.

The University of the South Pacific was praised for its initiative in organising this Conference and participants expressed the hope that the University would continue to take a leading role in teaching and research into traditional science in the Pacific Islands.

In the final session of the Conference, participants were given the opportunity to present recommendations, either in setting out principles or requiring action. Over 30 recommendations were submitted. While there was consensus on many of the recommendations, they were not voted upon or formally adopted by the Conference. The recommendations covered areas such as future meetings, proposals for research activities, changes to the regional educational curricula to incorporate more traditional science, a wider regional appreciation of practitioners of traditional science and several specifically directed at the University of the South Pacific.

The organizing committee plans to publish all of the papers for which written copies were received.

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At the annual meeting of the **History of Science Society** in Washington (27-30 December 1992) the following sessions were organized by the Pacific Circle.

Science in the Pacific Century

Chair: KEITH BENSON, University of Washington

"The Meanings of Success: Tropical Medicine and Bacteriology in Boston and the Andes," by MARCOS CUETO, Instituto Venezolano de Investigaciones Cientificas, Caracas

"The Smithsonian Goes to War: The Increase and Diffusion of Scientific Knowledge in the Pacific During World War II," by PAMELA HENSON, Smithsonian Institution

"The Machine in the Pacific Garden: Memory, Mythology and Technology," by DONALD FITZGERALD, independent scholar

The Nuclear Pacific

Chair: GARY WEIR, Naval Historical Center, Washington

"'Destination': Getting Ready to Drop the Bomb," by STANLEY GOLDBERG, independent scholar

"Bravo and the Marshallese: Fallout from the 1954 H-Bomb Test," by BARTON HACKER, Lawrence Livermore National Laboratory

"The Australian Atomic Energy Program," by ROY MACLEOD, University of Sydney

"The History of Human Irradiation in the South Pacific," by SUE RABBITT ROFF, University of Dundee

Commentator: ROGER ANDERS, U.S. Dept. of Energy

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The Pacific Circle will co-sponsor the following events in 1993:

For the **XIXth International Congress of History of Science** in Zaragoza, Spain, 22-29 August, the Pacific Circle has organized Symposium 19, "European Science and the *oceanus incognitus*." The symposium will include a session on "Spain in the Pacific," and a second more general session on "The Culture of Science in the Pacific. Organizers are ROY MACLEOD and FRITZ REHBOCK

The biennial Pacific Circle business meeting will also be held.

The **Vth International Congress for the History of Oceanography**, 7-14 July, at Scripps Institution of Oceanography, La Jolla, California. The theme of the Vth congress is "Oceanography: The Pacific Perspective" The following sessions are planned:

Plenary Sessions

- I. Oceanography Around the Pacific Rim
- II. Archival Resources of the Pacific
- III. Pacific Waters in Motion
- IV. Coral Reef Studies
- V. Continents vs. Oceans in the Earth Sciences Revolution
- VI. Scripps at Ninety

Concurrent Sessions

Ships and Instruments
The Early Modern Era
Expeditions and Exploration
Pacific Marine Biogeography
Pacific Marine Ecology
National Perspectives on
Oceanographic History
Fisheries and Aquaculture

Ancient & Native Ocean Traditions
Oceanography in South Asia
Leaders in Ocean Research
Education Mission of Marine Studies
Europe in the Pacific
Oceanography and the World Wars
Biological Oceanography-Marine Biology
Representations of the Sea

Congress co-chairs are FRITZ REHBOCK, History Dept., University of Hawaii, Honolulu, HI 96822; and KEITH BENSON, Dept. of Medical History and Ethics, School of Medicine, University of Washington, Seattle, WA 98195. The local arrangements chair is DEBORAH DAY, Archivist, Scripps Institution of Oceanography,

For a copy of the second circular, write Lene Hartman, Conference Manager, UCSD 0513, ICHO V, La Jolla, CA 92093-0513 USA.

The deadline for paper proposals is 15 January 1993.



*Planning
ICHO V:*

*left to right:
Walter Lenz,
Myra Pamplona
and spouse,
Keith Benson - at
the Instituto de
Investigaciones
Oceanologicas,
Ensenada,
Mexico*

**CONGRESSES, CONFERENCES
AND
CALLS FOR PAPERS
1993**

10-14 February. "Outpost Medicine" will be the theme of the Third National Conference of the **Australian Society for the History of Medicine** at the University of Tasmania. Inquiries:

Conference Secretariat
Conference Design Pty Ltd
GPO Box 844J
Hobart, Tasmania 7001
Fax: 002-31-3224

25-26 February. **Sigma Xi** will hold a conference on "Ethics, Values, and the Promise of Science," in San Francisco. Topics include: institutional responses to misconduct in scientific research; conflict of interest and managing competing interests; the peer review process; definitions of misconduct; science and the media; the role of experts; the ethics of diversity; improving mentoring; the societal responsibilities of science; biotechnology and genetic engineering; teaching ethics and values in science, in academia, in industry and in government. Inquiries:

Linda Rey
Sigma Xi
P.O. Box 13975

Research Triangle Park, NC 27709
Fax: 919-549-0090

20 March. "Pacific Trends and Alternative Strategies for Growth," is the title of the Seventh Annual J. Harold Dollar Symposium of the Pacific Basin Graduate Program, **Dominican College of San Rafael**, San Rafael, California. Inquiries:
Phone: 415-485-3238
Fax: 415-459-3206

1-4 April. A Science Session is being organized for the Pacific Sociological Association's meeting in Portland, Oregon. Inquiries and proposals:
Stephen Fuchs
Dept. of Sociology
University of Virginia
Charlottesville, VA 22903
Phone: 804-924-6540
E-mail: sf4r@virginia.edu

22-23 April. "Sir Joseph Banks: A Global Perspective," an international meeting at the **Royal Society** with cosponsorship by the **Natural History Museum**, **Royal Botanic Gardens, Kew**, the **Linnean Society of London** and the **Society for the History of Natural History**, in association with the **Banks Archive Project**. The meeting commemorates the 250th anniversary of Banks' birth. Fourteen papers will be presented by invited speakers. Inquiries:
Mr. Rex E.R. Banks
Head of Library Services
The Natural History Museum
Cromwell Road
London SW7 5BD, England
Fax: 071-938-9290

30 April - 2 May. Annual meeting of the **West Coast History of Science Society** at the California Institute of Technology. Inquiries:
Diana Barkan
Attn: WCHSS
Caltech 228-77
Pasadena, CA 91125

3-6 June. The **International Society for the Comparative Study of Civilizations** meeting at the University of Scranton, Scranton, PA. Inquiries:
Raymond Lewis
Dept. of Social Science
Eastern Kentucky University
Keith 323
Richmond, KY 40475-3119

24-27 June. "Oceans in World History," is the theme of the second annual conference of the **World History Association** in Honolulu, Hawaii. Featured speakers will include K.N. CHAUDHURI, COLIN PALMER AND BEN FINNEY, who will discuss, respectively, the Indian, Atlantic and Pacific Ocean basins in history.

Proposals, along with abstracts or brief descriptions, are due by 15 January to:
Professor Jerry Bentley
Dept. of History
2530 Dole St.
University of Hawaii
Honolulu, HI 96822
Fax: 808-956-9600

26 June - 1 July. "Sex/Gender and Power in Science and Technology," a conference at the **University of Melbourne**. Inquiries:
Phone: 03-344-6556

27 June -3 July. The **VII Pacific Science Inter-Congress** at Okinawa, on the theme "The Pacific: Crossroads for Culture and Nature." The three sub-themes are:
Cultural Interchange among Pacific Peoples
Speciation, Dispersal and Conservation of Species in the Pacific
Towards Appropriate Technologies and Policies for Development and for the Conservation of Natural Environments in the Pacific.
Inquiries:
VII Pacific Science Inter-Congress Secretariat
c/o Section of international Affairs
University of Ryukyus
1-Senbara, Nishihara
Okinawa 903-0, Japan
Fax: 81-98-895-4586

7-14 July. **ICHO V.** See pages 2-3.

14-18 July. Biennial meeting of the **International Society for the History, Philosophy and Social Studies of Biology**, at Brandeis University, Waltham, Massachusetts. Inquiries:
Patricia A. Williams, Program Chair
P.O. Box 69
Covesville, VA 22931
Phone: 804-524-5555
Fax: 804-732-4620
E-mail: pw9h@virginia.edu

19-25 July. "Geological Science in Latin America: Scientific Relations and Exchanges," is the title of the XVIIIth International Symposium of the **Internationa-**

tional Union of Geological Sciences and International Commission on the History of Geological Sciences/INHIGEO, in Campinas and Ouro Preto, Brazil. The second circular will be distributed in March. Inquiries:

XVIII INHIGEO Symposium
c/o M.M. Lopes or S.F. de M. Figueiroa
IG/UNICAMP - P.O. Box 6152
13081 - Campinas-SP, Brazil
Fax: 55-192-39-4717

August. "History of Geomagnetism and Aeronomy," a conference of the **International Association of Geomagnetism and Aeronomy**, at Buenos Aires. Inquiries:

Dr. Wilfred Schroder
Hechelstrasse 8
D-2820 Bremen-Roenebeck
Germany

2-7 August. The **7th International Conference on the History of Science in East Asia**, at Kansai Science City, Kyoto District, Japan. The second circular is now available; the third circular will be issued in June. Titles and summaries of proposed papers are due by 28 February to:

Organizing Committee, 7th ICHSEA
c/o Keizo Hashimoto
Faculty of Sociology
Kansai University
3-3-35, Yamate-cho, Suita-shi
Osaka 564, Japan
Fax: 81-6-337-5423

22-29 August. **XIXth Congress of IUHPS/DHS**. See page 2.

8-11 September. "Technological Change," an international conference to be held at **Oxford University**, in collaboration with the **British Society for the History of Science**. The hope is to focus attention on the processes of technological change in a wide range of geographical contexts and periods. Inquiries:

Professor Robert Fox
Modern History Faculty
Broad St.
Oxford OX1 3BD, England

15-17 October. "The History of Science and Technology Education in Canada" will be the theme of the 8th Kingston Conference of the **Canadian Science and Technology Historical Association**. Inquiries:

Dr. Marianne Ainley
Simone de Beauvoir Institute

1455 de Maisonneuve Blvd. W.
Montreal, Quebec H3G 1M8
Fax: 514-848-2370

11-14 November. Annual meeting of the **History of Science Society**, at Santa Fe, NM. Proposals for sessions and papers should be sent by 1 April to either of the program chairs:

Paul Lawrence Farber
Dept of History
Oregon State University
Corvallis, OR 97331-5104
Fax: 503-737-2434
E-mail: farberp@ccmail.orst.edu
or

Margaret J. Osler
Dept. of History
University of Calgary
Calgary, Alberta T2N 1N4
Canada

Fax: 403-289-8566
E-mail: mjosler@acs.ucalgary.ca

19-22 November. The **Society for Social Studies of Science (4S)** will hold its 18th annual meeting at Purdue University, West Lafayette, Indiana. The program committee welcomes proposals for papers in all areas of the social studies of science and technology; deadline for receipt is 31 March. Inquiries:

Professor Tom Gieryn
Dept. of Sociology
Indiana University
Bloomington, IN 47405

Dates not yet set. A conference tentatively titled "Making Space: Territorial Themes in the History of Science" is being organized at the University of Kent at Canterbury. Possible themes are: the spatial implications of technologies; the creation, formation and boundary construction of academic disciplines; laboratories and other privileged sites for science; architectural aspects; representational practices, artifactual spaces, etc. Feedback is sought by the organizers. Inquiries and suggestions:

Jon Agar
University of Kent at Canterbury
Canterbury, England
E-mail: jeal@ukc.ac.uk

BIOTECHNOLOGY LECTURE SERIES

The University of California at San Francisco will hold a guest lecture & seminar series on "Biotechnology in Society" from January through March. The

lectures, to be held weekly on Thursdays at noon, are organized by the Departments of Social and Behavioral Science, History of Health Sciences and Medical Anthropology. Inquiries: Monica Casper

Phone: 415-664-3941

E-mail: mcasper@itsa.ucsf.edu

ENVIRONMENTAL HISTORY SEMINAR

"The American West: Environment and History," a summer seminar for college teachers, sponsored by the National Endowment for the Humanities and conducted by PROFESSOR DONALD WORSTER at the **University of Kansas**. Applications are due by 1 March. Inquiries:

Professor Donald Worster
The American West Seminar
Hall Center for the Humanities
211 Watkins Home
The University of Kansas
Lawrence, KS 66045-2967

1992 MEETINGS OF NOTE

The **Vancouver Conference on Exploration and Discovery** (23-26 April), organized by ROBIN FISHER and HUGH JOHNSTON of Simon Fraser University, was a most impressive conference with an appropriately ambiguous title; for the man who was being commemorated in the town that bears his name was strangely absent from the proceedings. Vancouver (the town) played a starring role, however, with the wall-to-ceiling windows of the conference room framing mountains across the water, the conference organizers and staff smoothly running a varied and thoughtful program, and interested citizens bringing the total of participants to over 300.

Vancouver (the man) was a shadowy figure for three reasons. First, he himself seemed unable to escape from the monumental figure of James Cook who, despite already having had a conference all to himself 14 years earlier in the same location, was referred to more frequently than Vancouver. Second, figures like Vancouver who were useful for national building in earlier more confident times must now bear the symbolic brunt of the destructive consequences of the European arrival in the New world, and hence are no longer heroic figures. Third, and most important, the practitioners of the academic disciplines on show at this conference (anthropology, history, archaeology, geography, history of science, art history, and English) had tales to tell that in their range and sophistication went well beyond Vancouver

himself, but nonetheless began to make sense of the world he lived in and helped map.

Two sessions were devoted to the peoples that Vancouver met in his travelling: Polynesians (a category, as BEN FINNEY pointed out, which was invented by Europeans) and the original inhabitants of the Pacific Northwest (called variously "Indians" or "Natives" by paper givers when not identified by tribal or individual names). Two of the three papers in the session on "Scientific Explorations" dealt with Spanish explorations in the 18th Century, a welcome change since historians of science routinely ignore Spain in their work.

Vancouver put in partial appearance in three different sessions in which we learned about his chronometers (ALAN DAVIES), survey methods (ANDREW DAVID), health (JOHN NAISH), and knowledge of geography both theoretical and practical (GLYNDWR WILLIAMS, BARBARA BELYEA). Of these last two papers, Belyea raised the important question of what kind of science geography was in the 18th century, and whether the theoretical geographers deserved the scorn that Cook and Vancouver (and more recently, historians) have heaped upon them.

Of the remaining five sessions, two dealt with the important question of how late 18th- and early 19th-century explorers represented their voyages back in the metropolitan capitals of Europe through the careful production of images and literacy accounts for publication (IAN MACLAREN'S paper "Inscribing the Empire," was especially good), while the other three sessions considered the imperial contest within which Britain, Russia, Spain, the USA and France supported the voyaging and colonizing of the Pacific New World in the late 18th century. Among these final papers, DAVID MACKAY'S "The Burden of Terra Australis" (in an echo of KERRY HOWE'S paper "The Intellectual Discovery and Exploration of Polynesia"), reminded us that what Europeans said they had found in the Pacific may tell us more about them than what may have been there.

The organizers are planning to produce an edited volume of the conference proceedings as they did for the "Captain James Cook and His Times" conference in 1978. For further details of the program, contact:

Robin Fisher or Hugh Johnston
Vancouver Conference on
Exploration and Discovery
Dept. of History
Simon Fraser University
Burnaby, British Columbia
Canada

Report by RICHARD SORRENSON

The **West Coast History of Science Society** met 9-10 May at Morro Bay, California, to hear a full day-and-a-half of talks, most (12) by graduate students from Stanford and the UC campuses at Berkeley, Santa Barbara, Los Angeles and San Diego. Other talks were given by MARGARET SCHABAS, DANIEL KEVLES and BRUCE WHEATON. The Lazarroni Prize for the best graduate student paper was awarded to IAN A. BURNEY from UC Berkeley, who spoke on the legal consequences of death from anaesthesia during surgery in England in the years 1890-1930.

Four papers were on Asia-Pacific topics: two on Chinese science, one on virology at Caltech (KEVLES), and one on electron microscopy at Stanford (NICHOLAS RASMUSSEN). "Trial and Triumph: Jesuit Astronomy in 17th-Century China," by PINGYI CHU (UCLA), related how the Jesuits in 1644, just released from prison after an earthquake was interpreted as a disaster caused by their incarceration, were able to keep their freedom by accurately predicting the sun's position. ROGER HART (UCLA), who lived in China for five years, spoke on the "Gift of Mathematics: Western Reason in Chinese Science." By "western reason" he meant Euclidean deduction; Euclid's *Elements* was translated into Chinese in 1607, but did not result in the development of the western scientific method in China. Hart discussed several philosophical viewpoints on the failure of efforts to persuade the Chinese to see any importance in axioms and proofs.

Report by JANET GARBER

The **Pacific Division of the American Association for the Advancement of Science** met at the University of California, Santa Barbara, 21-25 June 1992. Two of the sessions were of interest to historians of Pacific, especially California, science. One was a day-long symposium on the history of science organized and chaired by Michele Aldrich (AAAS). In that symposium, EVELYNE STITT PICKETT, graduate student at the University of Idaho, discussed the extracurricular career of "the Snow Professor," James Edward Church, Jr., a classics professor in Nevada who developed methods for measuring snow pack in the Sierra Nevada Mountains, went to measure snow-fall in the Andes and Himalayas, and founded the International Commission on Snow in 1933.

In a paper on the cholera epidemic in San Francisco in 1850, "Cholera as a Catalyst for Social Change," MITCHEL P. ROTH (UC-Santa Barbara) discussed the development of public health measure in San Francisco in response to the spread of the epidemic through the wealthier classes. JANET GARBER presented a paper on Charles Darwin's correspondents in the Pacific, showing the importance of knowledge

of Pacific geology, biology (plant and animal distribution and evolution), and ethnology for the development and defense of his theories.

The other session of interest, "The Coast Wetlands of Baja California, Mexico," although on contemporary science, was noteworthy because of the historical record of the destruction of estuaries in Alta California, USA, and the belated recognition of the importance of wetlands for the economy as well as for "environmental" reasons. Organizer of the session was Barbara Massey, co-chair of *Pro Esteros*, a binational organization.

Report by JANET GARBER

The **British Museum and the Society for Post-Medieval Archaeology** hosted a conference in London (12-14 November) on "Trade and Discovery: the Scientific Study of Artefacts from Post-Medieval Europe and Beyond." The focus was on the period 1450-1800 and covered trade in metals, glass, ceramics and other materials, both within Europe and between Europe and Africa, Asia and the Americas, and the technological changes arising therefrom.

Inquiries:

Duncan Hook
Dept. of Scientific Research
British Museum
London WC1B 3DG England

"Recovering Science: Strategies and Models for the Past, Present and Future," a conference at the **University of Melbourne** (15-17 November) drew more than 120 archivists, historians, museum curators and scientists to discuss the documentation of scientific activity in Australia. The conference was organized by the Australian Science Archives Project. Proceedings are to be published, and a follow-up conference is planned for Canberra in November, 1994

"The Atomic West, 1942-1992: Federal Power and Regional Development," was the title of the First Annual Symposium of the **Center for the Study of the Pacific Northwest** at the Department of History, University of Washington, 25-27 September. Inquiries:

John Findley or Bruce Hevly
Ctr for the Study of the Pacific Northwest
Department of History, DP-20
University of Washington
Seattle, WA 98195
Phone: 206-543-5790

The 39th annual meeting of the **History of Science Society of Japan** took place at Tohoku University in

Sendai City, 30-31 May. The meeting included a symposium on "Science, Technology and Society in Post-war Japan." English titles of all lectures appear in the *Journal of History of Science, Japan*, No. 182.

PRIZES AND AWARDS

Pacific Circle member JAMES BARTHOLOMEW, Professor of History at Ohio State University, received the 1992 **Pfizer Award** from the History of Science Society for his book, *The Formation of Science in Japan* (New Haven: Yale University Press, 1989). The award committee was especially impressed by Bartholomew's treatment of cross-cultural issues in the diffusion of science. Also important was his ability to present Japanese science as the outgrowth of a specific set of circumstances. According to the award citation, "Bartholomew offers a meticulous analysis of the manner in which Japanese scientists sought to overcome the peculiar social, political, and institutional conditions prevailing during the post-Tokugawa period (1868-1921) in order to establish a native scientific tradition worthy of that name."

Pacific Circle member SHARON TRAWEEK, Associate Professor of Anthropology at Rice University, received honorary mention in connection with the Robert K. Merton Professional Award of the American Sociological Association, for her book *Beamtimes and Lifetimes: The World of High Energy Physicists* (Cambridge: Harvard University Press, 1988).

DR. JAN TODD received the C.H. Currey Fellowship for 1992 from the Library Council of New South Wales. She is writing a book on technology transfers to Australia in the late nineteenth century.

ANN PLAYER received the J. G. Crawford Prize of the Australian National University for her MA thesis on the Australian geologist, the Rev. Julian Tenison Woods

RECENT APPOINTMENTS

PHILIP K. WILSON is a visiting assistant professor in the Department of General Science, **University of Hawaii** for 1992-93. DR. WILSON recently completed his Ph.D. at the Wellcome Institute for the History of Medicine, London.

RECENT GRANTS

Among the recipients of grants awarded by the **Dudley Observatory** in the 1992-93 competition were: NORRISS HETHERINGTON (University of California Berkeley), for "Chamberlin's Planetesimal Hypothesis and the Mount Wilson Observatory: Converting a Geological Hypothesis into an Astronomical Research Program"; and DAVID S.P. DEARBORN (University of California), for "Astronomy and Empire in the Andes."

Rockefeller grants for 1992 were awarded to 34 scholars, including the following projects related to the Asia-Pacific region:

JOY E. HAYES, "Radio Broadcasting and 20th-Century Nationalism: a Comparison of Mexico and the United States during the 1930s";

SOMA HEWA, "The Contribution of the Rockefeller Foundation to the Development of Public Health in Sri Lanka";

RANDALL M. PACKARD, "Tropical Development and the Decline and Resurgence of Malaria, 1940-1970";

RAMAN SRINIVASAN, "An Ethnohistory of Scientific Campaigns in 20th-Century India."

The next round of grant awards, for which the application deadline was 31 December, will be announced in March.

GRANT & FELLOWSHIP OPPORTUNITIES

The **National Foundation for History of Chemistry** offers small travel grants (normally not exceeding \$500) to enable interested individuals to make use of the research resources of the Beckman Center for the History of chemistry and the Othmer Library of Chemical History. Inquiries:

Dr. Lawrence B. Friedman
Associate Director, Beckman Center
3401 Walnut St., Suite 460B
Philadelphia, PA 19104-6228

The **National Endowment for the Humanities** makes grants under the program "Humanities, Science and Technology" for the support of research that brings to bear the knowledge, methods and perspectives of the humanities on the subjects of science, technology or medicine. Individuals and institutions are eligible to apply. Applicants may request support for full- or part-time salaries, travel, and other costs of conducting research for periods of from one to three years. Application materials are available from:

Daniel Jones, Program Officer for Humanities,
Science and Technology
Room 318
National Endowment for the Humanities
Washington, DC 20506
Phone: 202-786-0210

The Macleay Miklouho-Maclay Centenary Fellowship is awarded annually for work in the history of science, particularly in 19th-century natural history in Australia, using the collections of the **Macleay Museum, University of Sydney**. The 1992 fellowship was awarded to DR. DANIEL TUMARKIN, principal research fellow of the Miklouho-Maclay Institute of Ethnography and Physical Anthropology, Russian Academy of Sciences, Moscow. Inquiries:

Dr. Woody Horning, Acting Director
MacLeay Museum, University of Sydney
Sydney, NSW 2006 Australia

The **Program in Nature, Culture & Technology** at the Hall Center for the Humanities, University of Kansas, offers two fellowships annually of up to \$35,000 for research involving historical and humanistic perspectives on environmental issues, both in industrialized and developing nations. Applicants are sought who are doing research on such themes as: the cultural history of nature in western and nonwestern societies, the ideal of sustainable development, ethics and environmentalism in a multicultural world, the political economy of land and resource use, local versus elite knowledge of the environment, race and gender in the representation of nature, and theoretical issues in environmental history. Application deadline is 15 January. Inquiries:

Professor Donald Worster
Program in Nature, Culture & Technology
Hall Center for the Humanities
University of Kansas
Lawrence, KS 66045-2967
Phone: 913-864-4798

Asahi Shimbun, a leading newspaper company in Japan, awards fellowships annually for foreign scholars, artists and journalists to spend a year in Japan to develop their academic or professional expertise as well and their knowledge of Japan, while contributing to international understanding and cooperation. Inquiries:

Asahi Fellowship Office
Kikaku Daini-bu
(Dept. II, Cultural Projects Division)
Asahi Shimbun
5-3-2 Tsukiji, Chuo-ku, Tokyo, 104-11

Japan
Fax: 81-3-3546-1894

The Japan Foundation awards Professional Fellowships (2-14 months) and Dissertation Fellowships (4-14 months) to foreign scholars in the social sciences and humanities who wish to conduct research in Japan. Applications are available from the Tokyo headquarters or any of the Japan Foundation offices throughout the world. Inquiries:

The Japan Foundation
Park Building, 3-6 kioi-cho
Chiyoda-ku, Tokyo 102, Japan
Fax: 075-255-1273

SCI-TECH-STUDIES NETWORK

An electronic mail network for science and technology studies was inaugurated at the University of California, San Diego, in 1992 and has quickly become an active medium for conversations relating to the history and sociology of science and technology. Anyone may subscribe to the network by sending the e-mail message "Sub sci-tech-studies" to: listserv@ucsd.edu.

FAX DIRECTORY FOR BIOLOGISTS

The **Pacific Science Association** has issued a 1993 *International Fax Directory for Biologists*, compiled by NEAL L. EVENHUIS. The 77-page directory lists, by country, the fax numbers of academic and other institutions of interest to biologists. Copies are available at a cost of US\$10 (+ \$2.00 if airmail postage is desired) from:

Pacific Science Association
P.O. Box 17801
Honolulu, HI 96817 USA

NEW CENTERS

The Australian Centre for Innovation and International Competitiveness (ACIIC) has been established in the Faculty of Engineering, University of Sydney. The centre will continue and expand upon the analysis of research, science and technology policy previously conducted by the former Centre for Technology and Social Change. Directors of ACIIC are PROFESSOR RON JOHNSTON, PROFESSOR GERRY FREED and BARBARA LEPANI.

An STS Center was founded in 1990 as part of the Research Institute of International Management at the Kanagawa University. Directors are SHIGERU NAKAYAMA and KEI-ICHI TSUNEISHI. A directory of Japanese and foreign scholars active in STS is in preparation. Inquiries:

Kei-ichi Tsuneishi
STS Center, Kanagawa University
3-27-1 Rokkakubashi
Kanagawa-ku, Yokohama-shi
Kanagawa 221, Japan

The Victorian Centre for the History and Philosophy of Science, a joint venture among departments at La Trobe University, University of Melbourne, Monash University, Deakin University and the Swinburne Institute of Technology, has been established at La Trobe University. Inquiries:

Brian Ellis
Department of Philosophy
La Trobe University
Bundoora, Vict. 3083
Australia
phone: 03-479-2425
fax: 03-479-1700

HISTORY OF MEDICINE IN HAWAII

The Hawaii Society of the History of Medicine and Public Health (HSHMPH) was inaugurated in December at Tripler Army Medical Hospital. Founding members are ROBERT J. LITTMAN (Classics, Univ. of Hawaii), DAVID M. MORENS (Public Health Science and Tropical Medicine, Univ. of Hawaii), STEPHEN Y. WILKERSON (Pathology, Tripler), PHILIP K. WILSON (General Science, Univ. of Hawaii), and JOHN A. BREINICH (Librarian, Hawaii Medical Library). The Society plans to hold monthly gatherings on the first Wednesday of each month at the Hawaii Medical Library, 5-6:00 PM. The public is invited to these informal seminars. Select individuals have been invited to give brief presentations. Under the theme for 1993, "Lessons in the History of Medicine," the following sessions are scheduled:

3 Feb: "The Origins of Anatomy in Hellenistic & Roman Alexandria," ROBERT J. LITTMAN

3 Mar: "Cutting up the Profession: The Reformation of Surgery in 18th-Century England," PHILIP K. WILSON

7 April: "Fatal Scarlet Fever: The Strange Case of a 19th-Century Epidemic," DAVID M. MORENS

7 May: Reception in honor of ILZA VEITH, 5:30-8:00 PM. "Sunshine in England?: Diseases

Incident to the Skin in 18th-Century London,"

PHILIP K. WILSON

6 Oct: "Display of Medical Artifacts," JOHN A. BREINICH

3 Nov: "The Short History of AIDS & Pandemic HIV Infection," ALAN R. KATZ

Inquiries:

Dr. David Morens
Biomed D103
University of Hawaii at Manoa
1960 East-West Road
Honolulu, HI 96822
Phone: 808-956-8601

UNESCO IN SOUTH EAST ASIA

UNESCO'S Regional Office for Science and Technology for South East Asia (ROSTSEA), located in Jakarta, promotes higher education, research and exchange of information in all fields of the natural science and technology. Program priorities include: Science & Technology for Development; Environment; and Science, Technology and Society. ROSTSEA publishes an annual "Calendar of Activities" and an "Annual Report," plus specialized activity reports and research papers. Inquiries:

UNESCO/ROSTSEA
Jl.M.H.Thamrin 14
Tromol Pos 1273/JKT
Jakarta 10012 Indonesia
Phone: 321 308
Fax: 62 21 334498

TRAVEL-STUDY IN CHINA

"Chinese Trade and Cross-Cultural Exchange" is the theme of two study-tours sponsored by the World History Association. One trip will follow the Silk Road to Lahore; the other will take the Grand Canal to port cities in South China. The tours are scheduled for 24 June - 7 August 1993, following on the WHA conference in Honolulu, 24-27 June. Inquiries:

Heidi Roupp
Box 816
Aspen, CO 81612

ACCESSIONS

The Central Library of the University of Chile has received the specialized collection in the history of science of DR. DESIDERIO PAPP, distinguished Latin

American historian of science. Inquiries regarding the Papp Library:

Humberto Giannini Iñiguez
Director, Biblioteca Central
Universidad de Chile
Calle Arturo Prat 23
10-D Santiago, Chile

NEW SERIALS

The first volume of *Japan Journal for Science, Technology & Society* (JJSTS) appeared in 1992, under the co-editorship of M. MATSUMOTO (Josai Univ.) and H. YOSHIOKA (Kyushu Univ.) and with the cooperation of the **Japan Society for Science Policy and Research Management**. Volume 1 includes five articles in Japanese and one in English. Inquiries:

M. Matsumoto
Josai University
1-1 Keyaki dai
Sakadoshi, Saitama
Japan
FAX: 81-49-271-0265

Metascience, New Series, An International Review Journal for the History, Philosophy and Social Studies of Science, edited by MICHAEL SHORTLAND (University of Sydney) is issued twice annually. Subscriptions: A\$25 per year. The first issue contains two essay reviews, two "review symposia" (multiple reviews of JOHN HEDLEY BROOKE'S *Science and Religion* and ALAN CHALMERS' *Science and its Fabrication*), and 41 shorter reviews.

The **Turkish Society for History of Science** began issuing its semi-annual *Newsletter* in 1991; the most recent issue, No. 4, appeared in October. The Society was founded at Istanbul in 1989, received approval from the Turkish government to represent Turkey in the history of science, and is now a Commission of the IUHPS. The society's founding and current president is PROF. DR. EKMELEDDIN IHSANOGLU. A degree program in History of Science at Istanbul University has also been initiated. Inquiries:

Dr. Feza Günergün, Editor & Secretary
Turkish Society for History of Science
P.O. Box 234
80692 Besiktas-Istanbul, Turkey
Fax: (90)(1) 258-4365

A new newsletter in Esperanto, covering STS activities in Japan has been published. Inquiries:
Tanaka Hiroaki

Fukuoka University of Education, Japan
E-Mail: f77543a@kyu-cc.cc.kyushu-u.ac.jp

Chemical Heritage is the new name of the newsletter of the **Chemical Heritage Foundation** of Philadelphia, formerly the *Beckman Center News*. *Chemical Heritage* carries news of the **Beckman Center for the History of Chemistry** and the **Othmer Library of Chemical History**. Inquiries:

Editor, *Chemical Heritage*
3401 Walnut St,
Philadelphia, PA 19104-6228
Fax: 215-898-3327

BIBLIOGRAPHY OF TRADITIONAL SCIENCE

A 104-page *Preliminary Bibliography on Traditional Science and Technology in the Pacific Islands*, assembled by ELIZABETH EADE, has been published by the Pacific Information Centre of the University of the South Pacific Library in Suva (1992), and was distributed at the Science of Pacific Island Peoples Conference. Entries are partly annotated and arranged in the following categories: Agriculture/ Ethnobotany, Navigation/Astronomy, Boats/Boatbuilding, Ecology/ Conservation, Fishing/Fishing Poisons, Food Preparation/ Preservation, Fire/Firewalking, Houses/House Construction, Medicine/ Medicinal Plants, Games, and Time Perceptions/Numeration.

AUSTRALIAN BIBLIOGRAPHY

LAURENCE E. CARLSON who compiles the annual "Bibliography of the History of Australian Science," for *Historical Studies in Australian Science*, would appreciate readers alerting him to relevant items. "The scope of the bibliography is limited to material on the history of the natural sciences (mathematics, physical sciences, earth sciences and biological sciences), some of the applied sciences (including medical and health sciences, agriculture, manufacturing and engineering), and human sciences (psychology, anthropology and sociology)." Information should be sent to him at:

8 Sherwood Court
Highton, Vic. 3216
Australia

ENCYCLOPEDIA OF NON-WESTERN SCIENCE

The Encyclopedia of the History of Science, Technology and Medicine in Non-Western Cultures is sched-

uled for publication in 1995 by Garland Publishing.
Inquiries:

Helaine Selin
Science Librarian
Hampshire College
Amherst, MA 01002

E-mail: hselin@hampshire.hamp.edu

EDUCATIONAL WALLCHART

"Practical Mathematics in the Age of Discoveries" is a set of four posters on the principal mathematical disciplines of the 15th and 16th centuries: astronomy, navigation, surveying and cartography. Published by the Whipple Museum of the History of Science, Free School Lane, Cambridge CB2 3RH, UK. £5 including postage.

BOOK REVIEW

SIR TOM DAVIS (PA TUTERANGI ARIKI), *Vaka: Saga of a Polynesian Canoe* (Rarotonga/ Suva: University of the South Pacific, and Auckland: Polynesian Press, 1992), xx + 326 pp., US\$15 (paper).

The author of this book, a former Prime Minister of the Cook Islands, has given us an accomplished piece of legerdemain: using smooth and lucid prose--all the while deftly brandishing his sleight-of-pen--he has transformed an otherwise soporific textbook on Polynesian anthropology into a delectable novel.

Though the tale is ostensibly about a great Polynesian voyaging canoe, no *akamai* student of literature will fall victim to this camouflage: Davis, to unloose his story, simply uses the imposing and ubiquitous presence of a major Polynesian artifact (a canoe) much as Mark Twain, in *Huckleberry Finn*, used a major American natural wonder (the Mississippi River)--as a literary device which is capable of maintaining thematic continuity over a prolonged time period among a series of otherwise disjointed episodes. But, whereas Twain's masterpiece unfolds around a central character who floats downriver on a throw-away (c)raft with no name, *Vaka* introduces us to a multiplicity of intergenerational characters of mixed importance and pedigree, who crisscross "Te Moana Nui a Kiva" (the Pacific Ocean) aboard a much-cherished vessel that has not one name but several, and whose name changes (nine times before the last page is turned!) almost as frequently as her mission.

What is the mission of a Polynesian voyaging canoe? Or, stated differently, with what intentions

would the limited resources of an island community under the sway of a powerful *ariki* (*ali'i*) be committed to constructing, outfitting, provisioning, crewing, and navigating a large canoe across the trackless sea--that unpredictable and at time unfriendly expanse between islands?

Simple, candid answers--to escape from one's nagging spouse (David Lewis, *We, the Navigators*)--are amplified by Davis to include a wide range of possible motives: the siblings of an eldest son feel slighted, and year to move away from the lowly status that has been their birthfate; tribal warfare erupts and the vanquished become sea-borne refugees; there are goods to be bartered, relatives to be visited, adventures to be pursued; enemies and pretty maidens to be conquered, over-population to be relieved, boredom to be mitigated--all by canoe!--and, for Davis, a story to be told, with Polynesian characters, scenes and moods appropriate to the telling.

In this telling, which takes the reader to Samoa, Fiji, Rarotonga, Tahiti and New Zealand, the "student" (i.e., the reader) is "entertained" (cleverly taught) by the "Professor" (Davis), and, as if by osmosis, learns many things, to wit: that great canoe building in ancient Polynesia was a community effort, for no individual alone possessed the skills, time, or resources required for the construction of a large and magnificent voyaging vessel, together with all its parts, from the coconut fibre sennit ropes, to the pandanus leaf sails, to the breadfruit sap caulking; that the finding and felling of trees of suitable size and quality for canoe-making could be a difficult and risky undertaking; that the meticulous and unwavering care of a once-finished canoe, both at sea and ashore, was required to insure its longevity; that the notion of a canoe's "carrying capacity" was well understood; that navigators understood, further, the relationship between "zenith stars" and latitude; that astronomical observations provided them with compelling evidence that the world ('*ao*) was not flat; that ancient Polynesian voyagers (therefore) considered the sea not as a frightful barrier, but as a "highway"--a true *ala moana*; that they could use their painstakingly acquired skills to sail against prevailing winds and currents; that their long inter-island voyages incorporated sets of "sailing directions" relative to a given rhumb line; and (not insignificantly) that thoughtful architects of voyaging canoes had the vision, and the courtesy, to construct "outboard projecting toilet facilities...on the less side of the vessel."

Those acquainted with the several recent voyages of the Hawaiian canoe *Hokule'a* will find this book uncannily familiar!

Aside from the canoe lore, might the reader of

Vaka be interested in, say, the ubiquitous Maui legends? If so, turn to chapter 3 or 17. Wonder about the etymology of "Hawaii"? Confused by the splash of unfamiliar Polynesian words in Davis' narrative? Then simply flip to the back of the book, for "novel" has something novel indeed--an index, that even doubles as a glossary! Was Te Rangi Hiroa (a.k.a. Sir Peter Buck, former director of the Bishop Museum in Honolulu) correct in his euhemeristic interpretation of the gods of Polynesia? Read, then, of Ka'ukura's death in Tahiti, and his subsequent apotheosis. Does the reader have any doubt about the importance of genealogy, and of the knowledge of genealogy, in Polynesian culture? Let this book, then, fall open to virtually any page and be satisfied.

Still, why should anyone read it? In 1990, two years before *Vaka* was ready for market, the *UNESCO Statistical Yearbook* disclosed that the accelerating pace of book production worldwide had, by 1988, already resulted in more than 834,000 titles being published in that year alone. Thus, we stand on the threshold of the 21st century attired in very unPolynesian accoutrements, both armed and alarmed by a paper army: we are being rushed breathless by the unguarded proliferation of the printed word. So to those who are still working their way through the *Great Books of the Western World*, and are caught somewhere between Homer and Freud, Davis' work may seem nothing more than another untimely distraction. Alternatively, for those who have either completed that task, or who are convinced that a steady diet of Western classics needs to be healthfully seasoned by a few pinches of non-Eurocentric enlightenment, *Vaka* may well be their garnish of choice, as well as a pleasant and palatable diversion.

Michael E. Chauvin
University of Hawaii
Program in Applied Philosophy

RECENT BOOKS

American Scientific Explorations, 1803-1860: Manuscripts in Four Philadelphia Libraries, by WILLIAM STANTON (Philadelphia: American Philosophical Society, 1991).

At Sea With the Scientifics: The Challenger Letters of Joseph Matkin, edited by PHILIP F. REHBOCK (Honolulu: University of Hawaii Press, 1993), US\$38.

Atomic Australia, 1944-1990, by ALICE CAWTE (Kensington: New South Wales University Press,

1992).

Australia on Paper: The Story of Australian Mapping, by JOHN D. LINES (Fortune Publications, 1992), A\$33.

Beyond Southern Skies: Radio Astronomy and the Parkes Telescope, by PETER ROBERTSON (Cambridge: Cambridge University Press, 1992), A\$59.95.

Bilharzia: A History of Imperial Tropical Medicine, by JOHN FARLEY (Cambridge/New York: Cambridge University Press, 1991).

Boeing in Peace and War, by EUGENE E. BAUER (Enumclaw, WA: TABA Pub., 1990).

Burning Bush: A Fire History of Australia, by STEPHEN J. PYNE (North Sydney: Allen and Unwin, 1992), A\$29.95 (paper).

Engineers in Australia: A Profession in Transition, by BRIAN E. LLOYD (Macmillan Education Australia, 1991), A\$39.95.

Entangled Objects: Exchange, Material Culture, and Colonialism in the Pacific, by THOMAS NICHOLAS (Cambridge, MA/London: Harvard University Press, 1991), US\$32.50 (cloth), \$14.95 (paper).

Ethnobiological Classification: Principles of Categorization of Plants and Animals in Traditional Societies, by BRENT BERLIN (Princeton: Princeton University Press, 1992), US\$45, £35.

The European Discovery of the Indian Flora, by RAY DESMOND (Oxford: Oxford University Press, 1992).

Exploring the Earth: Progress in Geophysics since the 19th Century, Selected Papers of the IAGA Symposium "Pioneers in Geophysical Research," Vienna 1991, edited by W. SCHRÖDER, M COLACINO and P.P. GREGORI (1992). DM23.

500 Fun Facts about Japan (Upland PA: Diane Publishing Co., 1992), US\$9.95.

A History of Antarctic Science, by G.E. FOGG (Cambridge/New York: Cambridge University Press, 1992), US\$89.95.

The History of Cartography, Vol. II, Bk. 1: *Cartography in the Traditional Islamic and South Asian Societies*, associate editors JOSEPH E. SCHWARTZBERG and GERALD R. TIBBETTS (Chicago/London: University of

Chicago Press, 1992), US\$125, £99.95.

The History of Siberia: From Russian Conquest to Revolution, edited by ALAN WOOD (London/New York: Routledge, 1991), US\$49.95, Can\$62.50.

Imagining the Pacific: In the Wake of the Cook Voyages, by BERNARD SMITH (Melbourne: Melbourne University Press, 1992), A\$89.95.

Indigenous Navigation and Voyaging in the Pacific - A Reference Guide, by NICHOLAS J. GOETZFRIDT (Westport, CT: Greenwood Press, 1992), US\$55.

Identity Through History: Living Stories in a Solomon Islands Society, by GEOFFREY M. WHITE (Cambridge/New York: Cambridge University Press, 1992), US\$54.95.

Inventors and Their Inventions: A California Legacy Seen Through the Eyes of a Patent Attorney, by PAUL D. FLEHR (Palo Alto, CA: Pacific Books, 1990).

Island Boy, An Autobiography, by TOM DAVIS (Suva: Institute of Pacific Studies, USP: 1992), US\$25 (case-bound), \$18 (paper).

Knight Errant of Science--Sir Edgeworth David Memorial Oration, by S.W. CAREY (Australasian Institute of Mining and Metallurgy, 1990), 74 pp.

Magical Arrows: the Maori, the Greeks and the Folklore of the Universe, by GREGORY SCHREMPF (Madison: University of Wisconsin Press, 1992), US\$47 (cloth), \$16.95 (paper).

Making a Living: Technology and Change in Britain, the United States and Japan, by R. ALAN HEDLEY (New York: Harper Collins, 1992).

The Manhattan Project: A Documentary Introduction to the Atomic Age, edited by MICHAEL B. STOFF, JONATHAN F. FANTON and HAL R. WILLIAMS (Philadelphia: Temple University Press, 1991).

The Manhattan Project: Science in the Second World War, by F.G. GOSLING (Washington, DC: U.S. Dept. of Energy, History Division, 1990).

Millikan's School: A History of the California Institute of Technology, by JUDITH R. GOODSTEIN (New York: Norton, 1991).

Native Society and Disease in Colonial Ecuador, by SUZANNE AUSTIN ALCHON (Cambridge/New York:

Cambridge University Press, 1991), US\$39.95.

New Guinea History: A Bibliography of Journal Articles on Papua New Guinea and Irian Jaya, by CLIVE MOORE (Department of History, University of Queensland, 1992).

Owen Lattimore and the "Loss" of China (Berkeley/Los Angeles: University of California Press, 1992).

The Pacific Century: The Emergence of Modern Pacific Asia, by MARK BORTHWICK (Boulder, CO: Westview Press/North Sydney: Allen & Unwin, 1992); from the 10-part television course of the same name.

The Prehistoric Exploration and Colonization of the Pacific, by GEOFFREY IRWIN (Cambridge/New York: Cambridge University Press, 1992).

Recovering the Tracks: The Story of Australian Archaeology, by DAVID HORTON (Canberra: Aboriginal Studies Press, 1992).

The Samoa Reader: Anthropologists Take Stock, by HIRAM CATON (University Press of America, 1990).

Saving California's Coast: Army Engineers at Oceanside and Humboldt Bay, by SUSAN PRITCHARD O'HARA and GREGORY GRAVES (Spokane, WA: Arthur H. Clark Co., 1991), US\$38.50.

The Sea Island Mathematical Manual: Surveying and Mathematics in Ancient China, by FRANK J. SWETZ (University Park: Pennsylvania State University Press, 1992), US\$25 (cloth), \$9.95 (paper).

Two Voyages to the South Seas, by CAPT. JULES S.C. DUMONT D'URVILLE, translated from the French and retold by HELEN ROSENMAN (Melbourne: Melbourne University Press, 1992).

Two Worlds: First Meetings between Maori and Europeans 1632-1772, by ANNE SALMOND (Auckland/New York: Viking, 1991; Honolulu: University of Hawaii Press, 1992), A\$50.

Words, Science and Learning, by CLIVE SUTTON (Milton Keynes: Open University Press, 1992), £32.50 (cloth), £10.50 (paper).

Wycliffe Rose of the Rockefeller Foundation: 1862-1914, The Formative Years, by ROY M. ACHESON (Cambridge: Killycarn Press, 1992), £12.50, US\$17.50 (paper).

Zoological Researches in Java and the Neighbouring Islands, by THOMAS HORSFIELD (1991 Oxford in Asia Hardback Reprint of the 1824 original).

DOCUMENTS

Adam Matthew Publications of Marlborough, Wiltshire, UK, has launched a major microfilm project in the history of science and technology. Series One in 2 parts (37 reels): the *Papers of Sir Hans Sloane, 1660-1753* from the British Library. Series Two (18 reels): the *Papers of Sir Joseph Banks 1743-1820* from the British Library.

DISSERTATIONS COMPLETED

"American Geological Practice: Participation and Examination. Part I: Origin of REE-enriched Hematite Breccias at Olympic Dam, South Australia. Part 2: The Rejection of Continental Drift," by NAOMI ORESKES, Stanford University, 1990.

"The Conduct and Consequences of Psychological Warfare: American Psychological Warfare Operations Against Japan, 1941-1945," by ELENOR ANNE SPARAGANA, Brandeis University, 1990.

"Creating a Sense of Place: Thomas Moran and the Survey of the American West," by JONI LOUISE KINSEY, Washington University, 1989.

"Making the World Safe for the Soldiers of Democracy: Patriotism, Public Health, and Venereal Disease Control on the West Coast, 1910-1919," by NANCY MOORE ROCKAFELLER, University of Washington, 1990.

"A Rhetorical Analysis of a Scientific Controversy: Margaret Mead versus Derek Freeman in Cultural Anthropology," by DONNA SCHIMENECK WEIMER, Pennsylvania State University, 1990.

"Science Curriculum Development in the Elementary Schools of the United States and Taiwan, Republic of China, 1957-1988," by LIN YUNG-SHI, University of South Dakota, 1990.

"To Test By Fire: The Assayer in the American Mining West, 1848-1920," by ROBERT LESTER SPUDE, University of Illinois, 1989.

RECENT ARTICLES

The Asia-Pacific Idea: Reality and Representation in the Invention of a Regional Structure," by ARIF DIRLIK, *Journal of World History* 3 (1992), 55-79.

"Bibliography of the History of Australian Science, No. 10, 1989," compiled by L. CARLSON, *Historical Records of Australian Science* 8 (1990), 107-118.

"Bibliography of the History of Australian Science, No. 11, 1990," compiled by L. CARLSON, *Historical Records of Australian Science* 8 (1991), 289-298.

"A Brief History of the Institute of Pacific Relations," by PAUL F. HOOPER, *Journal of Shibusawa Studies* 5 (Oct 1992), 3-32.

"The Challenger Expedition (1872-1876), Henry Bowman Brady (1835-1891), and the Challenger Foraminifera," by R.W. JONES, *Bulletin of the British Museum (Natural History)*, Historical Series, 8 (1990), 115-143.

"The Chemical Industry In Meiji Japan: The Case Of The Artificial Fertilizer Industry, 1," by CHIKAYOSHI KAMATANI, *Kagakushi* 18 (1991), 115-136 (in Japanese with English summary).

"A Comparative Study of the U.S. and Japanese Space Programs, by DAMON R. WELLS and DANIEL E. HASTINGS, *The Weaver* 9, no. 1 (Spring 1991), 9-11.

"Constructing Histories of Twentieth-century experimental Life Science: the Promise and Perils of Archives," by LILY E. KAY, *Mendel Newsletter*, ns., 2 (November 1992), 1-4.

"Fleurieu et le Voyage de Lapérouse, by J. BOURGOIN, in *Fleurieu et la Marine de son Temps*, edited by U. BONNELL (Paris: Economica, 1992).

"Genetics in the Atomic Age: The Atomic Bomb Casualty Commission, 1947-1956," by JOHN BEATTY, in *The Expansion of American Biology*, edited by KEITH R. BENSON, et al. (New Brunswick, NJ: Rutgers University Press, 1991), 284-324.

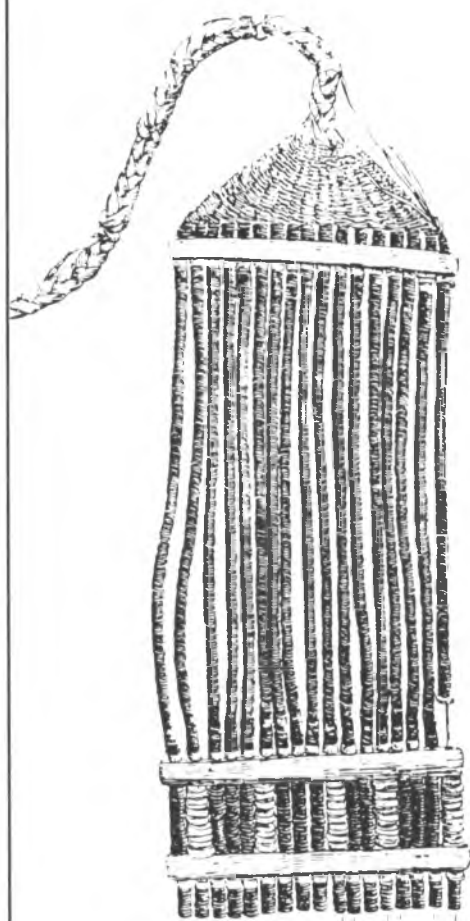
"Geological Maps of Australia in the nineteenth century and the Search for Mineral Wealth," by DAVID BRANAGAN, *Proceedings of the Pacific Rim Conference, Queensland* 2, (1990), 179-182.

- "A Historical Review of Antarctic Ichthyology, by R.K. HEADLAND, in *Fishes of the Southern Ocean*, edited by O. GON and P.C. HEEMSTRA (Grahamstown: J.L.B. Smith Institute of Ichthyology, 1990), 1-5.
- "A History of Coal Mining in New South Wales," by DAVID BRANAGAN, in *Coal in Australia: Proceedings of the Third Edgeworth David Day Symposium* edited by D.F. BRANAGAN AND K.L. WILLIAMS (University of Sydney, 1991), 1-16.
- "History of Early Work," by DAVID BRANAGAN, in *Intraplate Volcanism in Eastern Australia and New Zealand*, edited by R.W. JOHNSON (University Press, 1989)
- "A History of Gold in Chile," by W.A. CUADRA and P.M. DUNKERLEY, *Economic Geology* 86 (1991), 1155-1173
- "The History of Soviet Oceanology," by L.M. BREKHOVSKIKH, V.G. NEIMAN, and T. WATSON, *Oceanus* 34 (1991), 179-183.
- "Insects and Empire: Entomological Exploration of Alaska and Northwest Canada in Imperial and National Contexts, 1800-1880, BY W. CONNER SORENSEN, presented at the 4S/EASST joint conference, Gothenberg, Sweden, 1992.
- "Joseph Matkin (1853-1927), Rutland's Unsung Voyager," by PHILIP F. REHBOCK, *Journal of the Rutland Local History and Record Society* 12 (1992), 70-79.
- "Modern U.S. Pacific Oceanography and the Legacy of British and Northern European Science," by HARRY N. SCHEIBER, *Exeter Maritime Studies*, 1992.
- "Morisaburo Tauti's Self-actualization and His Fisheries Scientific Researches," by N. KAGEYAMA, *Report of the Tokyo University of Fisheries* 26 (1991), 21-67 [in Japanese, English abstract].
- "Oceanography," by ANITA MCCONNELL, in *The Royal Geographical Society History of World Exploration*, edited by J. KEAY (London: P. Hamlin, 1991), 278-295.
- "Organizational Dynamics and Gender Equity: The Case of Sociology Departments in the Pacific Region," by STEPHEN KULIS and KAREN MILLER-LOESSI, *Work and Occupations* 19 (1992), 157-183.
- "Organizing Pacific Science: Local and International Origins of the Pacific Science Association," by PHILIP F. REHBOCK, *Pacific Science* 45 (1991), 106-122.
- "Origins of Western Environmentalism," by RICHARD H. GROVE. *Scientific American*, July 1992, 42-47.
- "The Pacific Islands Potentials and Options for the 21st Century," by RON CROCOMBE, *Journal of the Pacific Society* 15 (1992), 1-35.
- "Perceptions of the Early Railroad Surveys in California," by JOHN R. COASH, *Earth Sciences History* 11 (1992), 40-44.
- "Pioneers in Earlier Geological Science and Organizations in China," by HUANG JIQING, *China Historical Materials in Science and Technology* 9 (1988), 1-13.
- "Politics, Science, and Education in New Mexico: The Racial Attitudes Survey of 1933," by LYNNE M. GETZ, *History of Higher Education Annual* 10 (1990), 51-68.
- "The Revelle Years," by WALTER MUNK, *Annual Report - Scripps Institution of Oceanography, 1991* (1992), 6-13.
- "El Rockefeller Archive Center y la Medicina, la Ciencia y la Agricultura Latinoamericanas del Siglo Veinte: una Revision de Fondos Documentales," by MARCOS CUETO, *Quipu* 8 (1991), 35-50.
- "Science and the Fall from Culture, by ROY MACLEOD, *Australian Campus Review Weekly*, 7-13 November 1991, 14-15.
- "A Study on the Exploitation of Natural Resources in South China Coast Zone. I. History and Experiences in Resource Exploitation," by H. ZHAO, *Tropic Oceanology* 9 (1990), 46-63 [in Chinese, English abstract].
- "Torahiko Terada and the Imperial Fisheries Institute, or Suisan Koshujo," by N. KAGEYAMA, *Report of the Tokyo University of Fisheries* 24 (1988), 81-122 [in Japanese, English abstract].
- "Using the Rockefeller Archives for Research on Modern Chinese Natural Science," by LAURENCE A. SCHNEIDER, *Chinese Science* 7 (1986), 25-31
- "Watching Whale-Watching: The Social Organization of Observation in Whale Watch Tours and Cetacean Field Research," by PETER R. GRAHAME, *Humanistic Sociology Association*, Ottawa, Oct. 1991.

ISLA: A Journal of Micronesian Studies

ISLA: *A Journal of Micronesian Studies* is a refereed semiannual publication featuring original research, analytical essays, policy analyses, book reviews, and other articles about Micronesia. Multidisciplinary in scope and ranging in time from prehistory to the present, *ISLA* focuses on Micronesian cultures, societies, histories, economies, and the political, educational and health statuses and systems of the region.

*Chuukese
men's belt
(detail)*



EDITOR: *Robert A. Underwood*

GUEST EDITOR: *Donald H. Rubinstein*

CONTENTS: *Vol. 1 No. 1/Rainy Season 1992*

Problems of National Unity and Economic
Development in the Federated States of Micronesia
The Honorable John R. Haglegam

The Path Back to Pohnsakar: Luelen Bernart,
His Book, and the Practice of History on Pohnpei
David Hanlon

Cross-Cultural Performances: A Palauan Hoax
Karen Nero

Pious Sites: Chamorro Cultural History at the
Crossroads of Church and State
Vicente M. Diaz

Defining History Across Cultures: Islander and
Outsider Contrasts
Lin Poyer

Children's Attitudes Toward Adoption in the
Marshall Islands
*Gordon Bauer, Richard Dubanoski, Lois Yamauchi,
Raynard Gideon, and Jerry Bennet*

BOOK REVIEWS/NOTES AND COMMENTS/OBITUARY

Published by the University of Guam Press.
All areas, US \$15/year individual; US \$25/institution.
ISLA Editorial Office, Graduate School & Research
UOG Station, Mangilao, Guam 96923

BOOK CATALOGUES RECEIVED

"Acquisitions December 1992: Voyages and Exploration," Hordern House, 77 Victoria St., Potts Point, Sydney, NSW 2011 Australia.

"Books from the Pacific Islands," covering works published by the Institute of Pacific Studies, the South Pacific Social Sciences Association, and South Pacific Creative Arts Society. Issued by the Institute of Pacific Studies, University of the South Pacific, Box 1168, Suva, Fiji.

"Books on Natural History, Sport, Travel, Medicine and Science," Catalogue 1147 from Maggs Bros. Ltd., 50 Berkeley Sq., London W1, UK.

Natural History, Catalogue 15 from Antiquariaat Julius Steiner-Asher, Keizersgracht 489, 1017 DM Amsterdam, The Netherlands.

"Science and Technology, History of Science," Catalog 28 from Bookcell Books, Box 506, Haverford, PA 19041, USA.

STAMP CATALOGUE

"Pacific Islands Price List 1993," from Pacific Stamps, P.O. Box 111, Cremorne Junction NSW 2090, Australia. This small family firm also issues a philatelic newsletter entitled *The Warbler*.

The *Pacific Circle Newsletter* is the communication medium of the Pacific Circle, organized in 1985 to promote and assist scholarship in the history and social studies of Pacific science. The Pacific Circle is a Commission of the International Union of the History and Philosophy of Science.

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DEADLINES

News items are welcome at any time. Deadline for inclusion in the next issue: 1 April 1993.

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