



No. 13

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PACIFIC CIRCLE NEWS

The **XVIII Pacific Science Congress**, to be held in Beijing, 5-12 June 1995, will include a Pacific Circle-sponsored session entitled "Asia and the Pacific from the 1920s through the 1950s from an Interdisciplinary Perspective: An Economic, Social and Cultural History." Convener FUMIHIKO SATOFUKA describes the rationale for the session: "During this period, Asia and the Pacific had bitter experiences which they will never forget. However, they not only experienced drastic changes in their domestic economies, societies and cultures, but also exposed themselves to other cultures and learned many foreign things and ideas. Scholars in each country are contributing historical studies to clarify the changes during the period." Speakers scheduled thus far for the session include: SATOFUKA (Sagami Women's University), MICHIO YAMAOKA (Waseda University), GEORGE OSHIRO (Obirin University), TAKASHI IGARASHI (Shibusawa Memorial Museum), and NOBUO KATAGIRI (Gumma Prefectural Women's University). The deadline for paper proposals is 31 October. Inquiries:

Fumihiko Satofuka
 Sagami Women's University
 2-1-2 Bunkyo, Sagamihara-shi
 Kanagawa, 228 Japan
 Fax: 81-427-434717

Darwin and the Pacific. The second volume of essays on Pacific science, co-edited by ROY MACLEOD and FRITZ REHBOCK, is scheduled for publication by the University of Hawaii Press in December. Entitled *Darwin's Laboratory: Evolutionary Theory and Natural History in the Pacific*, the book consists of sixteen chapters on the diverse Pacific dimensions of Darwin and Darwinism from the mid-19th to the early 20th centuries. Chapter authors include: RON AMUNDSON, KEITH BENSON, JANET BROWNE, BARRY W. BUTCHER, JANE CAMERINI, NANCY CHRISTIE, JANET GARBER, NIEL GUNSON, E. ALISON KAY, HENRIKA KUKLICK, JOHN LAURENT, ROY MACLEOD, PAULINE PAYNE, SARA SOHMER, JOHN STENHOUSE and DAVID STODDART.

Patronage and Progress. A major reason for our no-growth subscription rates has been increased patronage by advertisers and granting agencies, most especially the **Sasakawa Peace Foundation**. The Foundation has offered to sponsor the publication of a series of biographical essays on the work of prominent Japanese anthropologists in the Pacific islands. The first of these essays, on HISAKATSU HIKATA, appears on page 10.

The Pacific Circle Editorial Office is most grateful for the Foundation's support, a portion of which will be used for part-time compensation for our new editorial assistant, Ronalene Alboro. A University of Hawaii student in computer science, Rona assumed responsibility for assembling major portions of this issue, including the new section "E-News," beginning on page 11. We look forward to many improvements in future newsletters from her keyboard.

PACC
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 Pacific Circle newsletter.
 1994 n 13 09/01/1994
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Subscription Renewals. A colored renewal form is enclosed with this issue if your subscription is currently expiring. Please take a moment to update your address and interests as appropriate and return with your payment to the editorial office. You will note that our subscription rates have not changed since they were instituted in 1989, making the *Pacific Circle Newsletter* one of the rare inflation-free bargains of the Pacific region.

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

19-22 September 1994. "20th Century Science: Beyond the Metropolis" a conference in Paris marking the 50th anniversary of **ORSTOM**, and organized jointly with **UNESCO**. Historical topics will include the role of the scientific community since 1944, changing concepts of tropical medicine, and the transfer of science and technology. Inquiries:

Mme Laurence Porges
Colloque du Cinquenaire ORSTOM
213 rue La Fayette
75010 Paris, France

8-10 October 1994. "The Environment in World History: Lessons on Ecology and Culture," is the theme of this year's annual meeting of the **World History Association**, at the Aspen Institute, Aspen, Colorado. The conference will focus on the teaching and scholarship of human alterations to the environment and their social, economic, and political consequences to human history. Inquiries:

Heidi Roupp
P.O. Box 816
Aspen, CO 80612 USA

12-15 October 1994. The **Society for Social Studies of Science (4S)** will be holding its 19th annual meeting in New Orleans in conjunction with the **History of Science Society** and the **Philosophy of Science Association**. The 4S theme is "Science Technology, and Multiculturalism." Inquiries:

Linda Layne, 4S 1994 Program Committee Chair
Dept. of Science and Technology Studies
Sage Lab 5508
Rensselaer Polytechnic Institute
Troy, New York 12180-359 USA
Phone: (518) 276-6615
E-mail: linda_layne@mts.rpi.edu (INTERNET)
linda_layne@rptismts (BITNET)

27-28 October 1994. **INTERFACE's** Nineteenth Annual Humanities and Technology Conference will be held in Atlanta, Georgia. Participants will be from diverse fields, such as engineering, technology, computer science, history, literature, physics, philosophy, and business, and will be discussing the interrelationship between the sciences, technology, and the humanities. Inquiries:

Dr. Julie Newell, Director, INTERFACE
Social and International Studies
Southern College of Technology
100 South Marietta Parkway
Marietta, GA 30060-2896 USA
Phone: (404) 528-7481

28-29 October 1994. The **Royal Society/British Society for the History of Science** conference on "The Social Context of Science, Technology and Medicine in Ireland, 1800-1950" will take place in Armagh, Northern Ireland, with the support of the Wellcome Trust, the Royal Irish Academy, the Cultural Traditions Group (N.I.) and Armagh Together. Issues for discussion include how the different cultural traditions in Ireland responded to the emergence of modern science, engineering and medicine; colonial and nationalist models of development changing patterns of state and private involvement; technical education and technical organizations. A proposal will be put forward in the concluding discussion for the formation of an informal society devoted to the history of science, technology, and medicine in Ireland, and for the establishment of a newsletter devoted to the field.

Inquiries:

Professor P.J. Bowler
Social Anthropology
The Queen's University of Belfast
Belfast BT7 1NN UK
or
Nicholas Whyte
E-mail: sag0001@qub.ac.uk

26-27 November 1994. A seminar/workshop on "Working Disparate Knowledge Systems Together" will be held at the Sciences in Society Centre, School of Social Inquiry, **Deakin University**, Geelong, Victoria. The seminar will focus on the ways in which different knowledge systems may be brought together to produce hybrid, local knowledge without one being subordinated by the other. Papers will be presented on the first day. The second day will be a workshop in which participants may discuss the issues involved. It is hoped that the seminar will help to establish a network of scholars, activists, and indigenous spokespeople with an interest in the culture and practice of different scientific traditions. If

you wish to attend, give a paper, or join the network, contact:

David Turnbull
 Sciences in Society Centre
 School of Social Inquiry
 Deakin University
 Geelong, Victoria 3217 Australia
 Fax: +61 (0)52 272018
 E-mail: turnbull@deakin.edu.au
 or

Helen Verran
 Dept. of History and Philosophy of Science
 University of Melbourne
 Parkville, Victoria 3052 Australia
 Phone: +61 (0)3 344 4419
 +61 (0)52 271334
 Fax: +61 (0)3 344 7959
 E-mail: helenverran@muwayf.unimelb.edu.au

1995-96?. At the forthcoming annual meeting of the **Society for Social Studies of Science** in New Orleans, plans will be formulated to hold a two-day, interdisciplinary workshop on the theme "How Do We Know What We Know? Qualitative Research Methods in Studies of Science, Technology and Medicine." The workshop will be held at the University of California, Los Angeles, sometime in 1995 or 1996.. Inquiries: Jon Guice, University of California, San Diego
 Phone: (510) 658-9886
 Fax: (510) 601-1934
 E-mail: jguice@helix.ucsd.edu

8-11 March 1995. "Gambling with the Environment" is the theme of this year's biennial meeting of the **American Society for Environmental History**, which will be held at the Alexis Park Resort in Las Vegas, Nevada. Inquiries may be directed to members of the Program Committee:

Theodore Steinberg, Program Chair
 New Jersey Institute of Technology
 (201) 642-4177 or steinberg@admin.njit.edu

Jeffrey Stine
 Smithsonian Institution
 (202) 357-2058

Linda Lear
 Smithsonian Archives
 (202) 357-2787 or (301) 229-1136

Sally Fairfax
 University of California, Berkeley
 (510) 642-7627

Bill Riebaame
 University of Colorado, Boulder
 (303) 492-6310

Also, Hal Rothman, local arrangements
 University of Nevada, Las Vegas
 (702) 895-1012

23-25 March 1995. A NATO Advanced Research Workshop on the subject "Science Cities: A Comparative Exploration of the Structure and Function of Scientific-Technical Growth Centers" will be held at Nice-Sophia Antipolis, France. The workshop will concentrate on the roots, dynamics and consequences of scientific-technical growth centers like Silicon Valley, Route 128, the Bari Technopolis, Tsukuba, Sophia Antipolis and Akademgorodok. There will be special attention paid to the role of university-industry-government knowledge transfer. A limited number of places for new participants will be made available. Inquiries:

Robert Kargon, Director
 The Johns Hopkins University
 Baltimore, MD 21218 USA
 Fax: (410) 516-7502

or

Natalya Mikitina, Co-Director
 Moscow State University
 Moscow, Russian Federation
 Fax: 7-095-268-25-93

12-14 May 1995. A conference on "The Women and Gender in Science Question" at the **University of Minnesota** will address the question: What do research on women and science and research on science and gender have to do with each other? Paper proposals were due by 10 September 1994. Inquiries should be directed to Lori Graven at:

Women and Gender in Science Conference
 Professional Development and Conference Services
 University of Minnesota
 218 Nolte Center
 315 Pillsbury Drive SE
 Minneapolis, MN 55455-0139 USA
 Phone: (612) 625-9023
 Fax: (612) 626-1632
 E-mail: lgraven@maroon.tc.umn.edu

2-9 July 1995. The **Australian Society for the History of Medicine** is sponsoring an International Conference on the History of Medicine and Health, to be held on Norfolk Island. Conference themes include the history of penal systems and medical aspects of incarceration; military and garrison medicine and health; outpost medicine and health; and maritime medical history. Inquiries:

Dr. John Thearle
 Conference 95 Secretariat
 Department of Child Health
 Mater Children's Hospital
 South Brisbane, QLD 4101 Australia
 Fax: (617) 844-9069

12-14 July 1995. "The Visual Culture of Art and Science: from the Renaissance to the Present," an international conference to be held at the **Royal Society** of London, organized by the Association of Art Historians, the British Society for the History of Science, and the Committee on the Public Understanding of Science. The meeting will examine the full range of visual media through which both artistic and scientific endeavors found their expression.

Inquiries:

BSHS Executive Secretary
 31 High Street
 Stanford in the Vale, Faringdon
 Oxon, SN7 8LH, England UK

19-23 July 1995. The first European meeting of the **International Society for the History, Philosophy and Social Studies of Biology (ISHPSSB)** will be held in Leuven, Belgium. Session details are due by 1 January; abstracts of papers by 1 February 1995. Inquiries:

Linnda R. Caporael
 Dept of Science and Technology Studies
 Rensselaer Polytechnic Institute
 Troy, NY 12180 USA
 Phone: (518) 276-8519
 Fax: (518) 276-2659, or
 Elihu M. Gerson
 Tremont Research Institute
 458 29th St.
 San Francisco, CA 94131 USA
 Phone: (415) 285-7837
 E-mail: tremont@ucsfvm.ucsf.edu

31 August-1 September 1995. The **International Symposium on East Asia** will be held at Kokugakuin University. The theme has been changed to "Economic Development and the International System in Twentieth Century East Asia." The deadline for summaries of papers in Chinese is 30 September 1994, and for those in Japanese or English, the deadline is 15 October 1994. Please note that there are special guidelines for these summaries. Inquiries:

Aiko Ikee
 Department of Economics
 Kokugakuin University
 4-10-28 Higashi, Tokyo 150, Japan

Fax: +81-3-5485-0153
 +81-3-5485-0154

25-28 July 1996 are the tentative dates of the Third British-North American International History of Science Conference. The theme will be "Crossing Boundaries," but the location in the UK has not yet been set. Inquiries:

Dr. Stephen Pumfrey
 Department of History
 University of Lancaster
 Lancaster LA1 4YG, UK
 Fax: 0524-846102
 E-mail: hia004@lancaster.ac.uk

22-28 September 1996. The 1996 Commemorative Conference: "The Scientific Savant in Nineteenth Century Australia" and "Beyond the Floras" will be held in Melbourne, Australia under the auspices of the **Royal Botanic Gardens, Melbourne**. This will be a scientific and historical conference celebrating the life and legacy of Australia's greatest 19th century scientist, Ferdinand von Mueller (1825-1896). Inquiries:

Dr. T. Entwisle, Convener
 1996 Conference Committee
 Royal Botanic Gardens
 Birdwood Avenue
 South Varra, Victoria 3140, Australia
 Phone: (03) 655 2300
 Fax: (03) 655 3250
 E-mail: entwisle@botany.unimelb.edu.au

RECENT MEETINGS

"Pacific Marine Science at Century's Close: Achievements and Prospects," was the title of the Pacific Circle's session at the annual meeting of the **American Association for the Advancement of Science**, 20 February 1994 in San Francisco. KEITH BENSON (University of Washington) led off with a paper on the migration of marine biological research and teaching from New England to the West Coast, noting that marine biological station initiatives usually focused on the education of secondary school teachers, while oceanographic institutions were research oriented at the outset. FRED SPIESS (Scripps Institution of Oceanography) explored the history of Pacific ocean geophysics and geology, from the cable-laying tests of the *Tuscarora* in 1873, through the explosion of research in the 1950s, to the advent of multiple beam sonar in the 1980s. KLAUS WYRTKI (University of Hawaii) described his personal experiences in the evolution of knowledge of El

Niño and the Southern Oscillation, while addressing the questions of El Niño's causes, consequences and predictability. And WARREN WOOSTER (University of Washington) surveyed the history of international marine organizations and the institutional problems of dealing with fisheries issues as opposed to oceanographic issues. Finally, commentator DAVID STODDART (University of California, Berkeley) noted the shift in the 20th century from the Humboldtian science of great men to the era of scientific teams, institutions and international organizations. Although playfully chastising the speakers for having "leaked out" well beyond the prescribed Pacific boundaries of the session, Stoddart generously applauded the event as a "landmark symposium." *Newsletter* editor FRITZ REHBOCK chaired the session.

"Responding to Darwin: New Perspectives on the Darwinian Revolution" was the theme of a bilateral Australian-American conference organized by RONALD L. NUMBERS and JOHN STENHOUSE. The conference was held 12-15 May at the **University of Otago**, in Dunedin, NZ. The organizers were kind enough to supply the following summary.

Some two dozen historians of science met at Knox College, Dunedin, New Zealand in an International Seminar entitled 'Responding to Darwin: New Perspectives on the Darwinian Revolution'. The Seminar brought together historians from Britain, Canada, the United States, Australia and New Zealand to assess responses to Darwin in the English-speaking world from a wider range of geographical, racial, gender and class perspectives than previously considered. Participants presented papers on the reception of Darwinism in New Zealand (John Stenhouse), Australia (Barry Butcher), Canada (Suzanne Zeller), the American South (Ron Numbers and Lester Stephens), and the American North-West (Keith Benson). Another cluster focused on religion: Darwinism and American Protestants (Jon Roberts), Catholics (Scott Appleby), and Jews (Marc Swetlitz). Eric Anderson discussed African-American responses to Darwin, and Sally Gregory Kohlstedt discussed American women's responses to biological determinism in the late nineteenth and early twentieth centuries. Jim Moore launched the Seminar with a public lecture entitled 'Darwin Among the Ultras' and over the following three days we got down to exciting and spirited discussion. Participants agreed that it was a great conference and enjoyed their post-conference trip to Milford Sound. The beauty of the landscape so overwhelmed the capacity of Keith Benson's 'lovely-ometer' that it simply blew up (see photo). The conference

gave a great boost to the history of science community in New Zealand and the Pacific, and we look forward to meeting together again.

Dr. John Stenhouse
Lecturer in History
University of Otago (photo courtesy of Garry J. Tee)



"Making Space: Territorial Themes in the History of Science" was organized by the **British Society for the History of Science** and held at the University of Kent at Canterbury, 28-30 March 1994. The following report of the conference was generously provided by Jane Camerini.

Approximately 100 people gathered to present and hear two solid days of papers about space. If that sounds a little vague, well, it was. Spatial discourse is about as pervasive as you can get, and if some of the papers I heard

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(slightly fewer than half of the 47 presented) did not cohere around an identifiable theme, this isn't terribly surprising. It is not clear that one moves in a meaningful direction by broadening the scope of questions from "place" to "space." We face a set of challenges about the situatedness of knowledge from local places, the networks of relations this implies, and the question of how one goes from local to global knowledge. Can yet-to-be defined notions of space enhance our ability to meet these challenges? The conference served to lay out analyses of several different kinds of spatial metaphors, including but not limited to the place of knowledge production, and it remains to be seen how these different approaches may inform one another.

I venture to classify some of the papers crudely into three categories: (i) those in which an analysis of PLACE illuminates practice. These were among the best developed papers, following from the kind of questions laid out by Adi Ophir and Steven Shapin (*Science in Context* 4, 1991). In different ways, the presentations by Jim Secord, Simon Schaffer, Anne Secord, Tom Gieryn, and Alix Cooper not only showed how space reflected and prescribed (Sophie Forgan's words) social relations, but went some distance in explaining the status of knowledge claims produced there. (ii) those in which space served as a general metaphor for various kinds of knowledge--electromagnetic, sacred, cartographic, geometrical, narrative, visual, medical, fictional, virtual, etc. Many of these papers combined knowledge of real sites with domains of knowledge, most notably and successfully, the medical topographies discussed by Ludmilla Jordanova. There were times when authors did not distinguish between domains of spaces of knowledge from a notion of place, and it was sometimes unclear what work the spatial metaphor was performing. (iii) those that employed topological, or other spatial metaphors, as analytic frameworks (e.g., Andrew Pickering, John Law & Annemarie Mol).

Of the speakers I heard, I would single out those by Dorinda Outram and John Law & Annemarie Mol as having reflected more deeply than others upon the category of space itself. Their analyses of meanings and kinds of space, the variety of experiences involved in different kinds of space, and the relations between and among them, showed that different forms of spatiality are involved in understanding scientific practices and their histories. In general, I wonder why I did not hear much about contestations and debates, or about time, some sense of which (duration) is embedded in some of the visual representations that were discussed, and indeed in all practice.

Over half the papers I heard used slides or overheads to accompany the verbal presentations. I hope this suggests a stylistic move towards an enhanced appreciation of the role of visual representation in scientific practice. I don't know if the fact that the sessions were tape recorded had an effect on the speakers or not. Most speakers tried to make the most of their allotted 30 minutes, and at times they seemed unaware that some members of the audience were unaccustomed to rapid English.

The discomfort I have about the Making Space conference papers is analogous to the peculiar physical space in which visitors to the University of Kent were fed and housed. The amount of time conferees spent in search of their rooms in Eliot College was rather remarkable. I don't want to read too much into the arrangement of the architectural space we briefly occupied, but my impression of the conference as a knowledge making foray has a similar configuration. The sociability of the event scored high nonetheless. The dining room and the bar afforded ample space for those embodied connections that make conferences real meeting places. The medium size of the conference and the marked attendance by people from fields other than history of science (most notably sociology and geography) made it a worthwhile and enjoyable event.

Jane Camerini
Science Studies Program
University of California, San Diego

The Fourth Annual International Conference on Comparative Scientific Traditions was held at the University of Massachusetts, Amherst, 8-10 April 1994. The topic of this year's conference was "Dissenting Ways of Knowing: Challenging Global Scientism." The conference coordinator was: Helaine Selin, Science Librarian, Hampshire College, Amherst, MA 01002 USA.

The Trilateral Institute on Innovation, Competitiveness and Sustainability brought Mexican, American and Canadian researchers and practitioners together at Whistler, British Columbia, 14-21 August 1994.

Emphasis was on systems of innovation in North America and the ways in which they respond to the challenges of competitiveness and sustainability. Inquiries:

Dr. Catherine Murray, Director
Centre for Policy Research on Science & Technology
Simon Fraser University
515 West Hastings St.
Vancouver, BC Canada V6B 5K3
E-mail: catherine_murray@sfu.ca

APPOINTMENTS, PROMOTIONS, AND ELECTIONS OF PACIFIC CIRCLE MEMBERS

ERIC L. MILLS has been appointed the first Professor of the History of Science at Dalhousie University. Formerly professor and chairman of oceanography at Dalhousie, Eric will be working directly in the Faculty of Science. He is the founding and current editor of the *History of Oceanography Newsletter* and was recently appointed president of the Commission on Oceanography of IUHPS/DHS.

KEITH R. BENSON was promoted to professor in the Department of Medical History & Ethics, University of Washington.

ROD HOME was elected to membership of the International Academy of the History of Science, the first Australian to be so honored.

ROCKEFELLER RESEARCH GRANTS

The Rockefeller Archive Center awarded grants to 36 scholars in 1994, including the following for Asia-Pacific topics:

SUNIL SONDEHI (National Institute for Science, Technology and Development Studies, New Delhi), "Technology and Politics in East Asia";

LAWRENCE T. WOODS (University of Northern British Columbia), "Canadian Participation in the Institute of Pacific Relations: the Rockefeller Foundation Connection and Contribution"; and

KA-CHE YIP (University of Maryland, Baltimore County), "Medicine and Health Care in Wartime China, 1937-1945."

PRIZES AND AWARDS

Journal of Pacific History International Essay Prize. An annual prize of A\$200, plus a three-year subscription to *The Journal of Pacific History* is offered for an academic essay in English or French on any aspect of the history of the Pacific Islands, preferably based on original research, and between 5,000 and 8,000 words in length, by a resident of any country enrolled in an accredited university as an undergraduate or graduate student (providing the author is not a member of academic staff).

The winning entry may, with the author's consent, be considered for publication in the *Journal*.

The **Third World Academy of Sciences** invites submission of essays to be considered for a Fourth History of Science Prize, to be awarded in 1995. The research essay should summarize the major achievements of a Third World scientist prior to the 20th century, whose work has not been hitherto clearly recognized. Essays should be 20,000 to 50,000 words, and should indicate the impact of the scientists' contributions on his/her community and, where, relevant, establish their influence on modern scientific thought. The prize consists of a check for \$10,000 and a personalized plaque. Deadline for submission: 1 December 1994. Inquiries:

Ms. Helen Grant (History of Science Prize)
Third World Academy of Sciences
c/o International Centre for Theoretical Physics
P.O. Box 586
Strada Costiera 11
34136 Trieste, Italy

NEW PROGRAMS

The **Sciences in Society Centre** has been established by the Faculty of Arts, Deakin University, Geelong, Victoria. The Centre is engaged in interdisciplinary research and post-graduate training in projects exploring the interrelationship between knowledge systems, technologies and societal values. Currently the Centre is pursuing four specific themes: knowledge production as a social process and the socio-logic of scientific practice; science dynamics--social dynamics; science as a commodity; and ethics, scientific and professional ethos. The Centre organizes national and international conferences on themes of interest for the public understanding of science the philosophical critique of scientific knowledge. It also publishes a newsletter, *Crux*, and the series *Sciences in Society Working Papers*. Inquiries:

Irmeline Veit-Brause
Associate Professor
History of Ideas
Phone: 052-272587
Fax: 052-271458
E-mail: ivb@deakin.edu.au
or

Wade Chambers
Associate Professor
Social Studies of Science

Visiting Fellowships 1996

THE HUMANITIES RESEARCH CENTRE

Applications are invited for Visiting Fellowships in the Humanities Research Centre in 1996.

Each year the Centre concentrates upon a special theme. In 1996 the theme will be 'Culture and Science'. The Centre intends to organise four conferences: The Tenth David Nichol Smith Conference on Eighteenth-Century Studies, 'Margins and the Metropolis: Literature, Culture and Science, 1660-1830' (early July); 'Beyond Colonialism: a seminar on art history and anthropology in honour of Bernard Smith' (late July); 'Science and Other Indigenous Knowledge Traditions' (Incorporating the Sixth Comparative Scientific Traditions Conference, to be held jointly with Deakin University's Sciences in Society Centre and James Cook University, and based at the Cairns Campus of James Cook University in late August/early September); 'The Natural Sciences and the Social Sciences' (mid-september).

Applications from scholars working in any area of the humanities are welcomed, as a proportion of each year's Fellowships is reserved for those without special interest in the year's theme; the majority of Fellowships, however, will be awarded to those whose work is relevant to the annual theme and its conferences.

Fellows are expected to work at the Centre, but are encouraged also to visit other Australian universities. Grants usually include a travel component and a weekly living allowance.

Prospective applicants must obtain further particulars and application forms from the Centre Administrator, Humanities Research Centre, The Australian National University, Canberra, ACT 0200, Australia.
Fax 61 6 248 0054. Applications should reach the Secretary, ANU, by 31 October 1994. Ref. HRC 8.6.1.

The University is an equal opportunity employer.

The University's EEO Policy forms part of the selection documentation.

The University has a non-smoking policy effective in all buildings and vehicles.

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Fax: 052-271458

E-mail: wade@deakin.edu.au

GRANT AND FELLOWSHIP OPPORTUNITIES

The **Rockefeller Archive Center**, a division of The Rockefeller University, invites applications for its program of Grants for Travel and Research at the Rockefeller Archive Center for 1995. The competitive program makes grants of up to US\$1500 to U.S. and Canadian researchers and up to \$2000 to researchers from abroad in any discipline, usually graduate students or post-doctoral scholars, who are engaged in research that requires use of the collections at the Center. These include the records of the Rockefeller family, the Rockefeller Foundation, The Rockefeller University, and other philanthropic organizations and associated individuals. **Deadline: 31 December 1994.** Grant recipients will be announced in **March 1995.** Inquiries:

Darwin H. Stapleton, Director
Rockefeller Archive Center
15 Dayton Avenue
North Tarrytown, NY 10591-1598 USA

The **U.S. National Endowment for the Humanities** is pleased to announce the availability of grants under the program of 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. Historical studies and studies of current topics are eligible, however current topics must deal with fundamental issues in the humanities. 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. This category of support is for projects that, because of their intellectual scope and consequent size, duration or complexity, cannot be accomplished through individual one-year fellowships. The next deadline for receipt of applications is **15 October 1994.** Inquiries:

Daniel Jones
Program Officer for Humanities, Science &
Technology
Room 318
National Endowment for the Humanities
Washington, DC 20506 USA
Phone: (202) 606-8210

The **Technical University of Berlin**, Department of Communications and History, offers four scholarships to students for a four-semester (two year) program in History and Philosophy of Western and Chinese Science and Technology. This program, sponsored by the Volkswagen Foundation, began in 1993 and takes place every semester until the summer of 1996. Applications should be submitted three months prior to the beginning of each semester (January or July) by sending curriculum vitae, certificates, and a letter of reference to:

Technische Universität Berlin
Arbeitsstelle für Geschichte und Philosophie
der Chinesischen Wissenschaft und Technik
Skr. TEL
Strasse des 17. Juni 135
1000 Berlin 12, Germany

The **University of Oklahoma** announces an Andrew W. Mellon Postdoctoral Fellowship for research and teaching in the area of the Historical Intersections of the Biological and Social Sciences. The 1995-96 Fellowship is open to candidates with doctorates in history, the history of science, or related fields. The Mellon Fellow will teach one undergraduate or graduate course during the academic year. Applications should be postmarked by 20 January 1995. Inquiries:

Dr. Gregg Mitman
History of Science Department
601 Elm St., Rm. 622
University of Oklahoma
Norman, OK 73019-0315 USA
Phone: (405) 325-2213
Fax: (405) 325-2363
E-mail: gmitman@uoknor.edu

Applications are invited for the **J.B. Harley Research Fellowships in the History of Cartography**. These fellowships are for anyone pursuing advanced research in the history of cartography, irrespective of nationality, discipline or profession. Preference will be given to interpretive studies in map history, irrespective of area, theme or period. Awards are normally £400, to assist with the cost of two weeks in London. Closing date: 1 November. Inquiries:

Tony Campbell
Honorary Secretary
J.B. Harley Research Fellowships Trust
British Library Map Library
Great Russell Street
London, WC1B 3DG, UK
Fax: (0)71-323-7780
E-mail: tony.campbell@bl.uk

REQUESTS FOR INFORMATION

The Social Studies of Science, School of Social Inquiry at Deakin University is thinking of setting up a course in Science, Technology and the Law, to be run in conjunction with Police Studies and the Law Faculty. Copies of course structures and bibliographies of similar courses currently running would be most appreciated.
Contact:

David Turnbull
Social Studies of Science
School of Social Inquiry
Faculty of Arts
Deakin University
Geelong, Victoria 3217 Australia
Phone: (052) 271334
Fax: (052) 272018

The Institutional Members Advisory Council of the National Association for Science, Technology and Society (NASTS) is updating the "NASTS Directory of Science, Technology, and Society Programs at Colleges and Universities." Short survey forms were sent to over a hundred institutions; however, it is likely they have missed a number of programs (newly established, from abroad, etc.) If you are involved in a program that did not receive a survey, or know of one that didn't, please contact:

Carl Mitcham
STS Program
Penn State University
133 Willard Building
University Park, PA 16802 USA
Phone: (814) 865-9951
or
Steve Cutcliffe
STS Program
9 West Packer Avenue
Lehigh University
Bethlehem, PA 18015 USA
Phone: (610) 758-3349
E-mail: shc0@lehigh.edu

The Oxford University Press has begun work on a comprehensive revision of the *Oxford English Dictionary*, to be published in 2005. They wish to encourage scientists with information relevant to the OED to draw it to their attention, including: the coinages of particular scientific words, factual errors in their definitions, scientific words and meanings not in the OED, and earlier referenced examples of words and meanings already treated in the dictionary (and later examples of those

described as obsolete). Inquiries:
 Chief Science Editor
 Oxford English Dictionary
 Walton Street
 Oxford OX2 6DP UK
 E-mail: oed3@oup.co.uk

**HISTORY OF SCIENCE
 CONTACT POINTS IN JAPAN**

The History of Science Society of Japan has provided the following list of its local branches and subcommittees.

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<u>Locality</u>	<u>Contact Person</u>	<u>Address</u>	<u>Telephone</u>
Hokkaido (Northern parts)	T. Yamada	2-1-22 Higashi Hakken Hachijo Nishiku, Sapporo 068, Hokkaido	011-722-7145
Tohoku (East Northern parts)	K. Takata	c/-Miyagi Gakuen Women's College 2-1-1, Sakuragaoka Aobaku, Sendai 981 Miyagi	022-278-6178 fax: 022-277-6186
Kanto (Tokyo area)	I. Suto	c/-3-55-14 Yotsuya, Fuchu 183-Tokyo	0423-66-1286
Tokai (Middle Japan)	A. Takayama	c/-Mie Univ. Dept. of Education 1515, Hamacho, Tsu, 514, Mie	0592-22-1211
Kyoto	M. Yano	6-20, Iwakura Muramatsu cho Sakyoku, 606, Kyoto	075-1721-3048
Hanshin (Osaka and Kobe)	Y. Miyake	4-698-1 Asahigaoka Kasiwabara-shi, 582 Nara	0729-726-3211
Chugoku and Shihohu (Western Japan)	K. Nayrisada	5-11-18 Ashinadai Yokkaichi 738 Hiroshima	0829-38-1448
Subcommittee of the History of Biology	T. Sakano	3-13-3, Kita Nishiogi Suginamiku 167-Tokyo	03-5382-2306

**SASAKAWA ESSAYS ON
 PACIFIC ANTHROPOLOGY:
 The Role of Hisakatsu Hijikata in the Pacific Islands**

The name Hisakatsu Hijukata represents a long impression that was made in Micronesia during the Japanese mandate period, before the outbreak of the war in the Pacific. Micronesia was then part of the vast area popularly known by the Japanese as *Nanyo*. *Nanyo*, which means in Japanese "the South Seas," denoted a geographical space not only with an assortment of tiny

tropical islands but also with connotations characterized by romanticism. It was perhaps the latter quality associated with *Nanyo* that intrigued and attracted Hijikata to the Pacific.

Hisakatsu Hijikata was born in Koishikawa, Tokyo, in the year 1900, the second son of Hisamichi and Hatsue Hijikata. Hisamichi Hijikata was a colonel in the army, educated partly in Germany. Hisakatsu Hijikata's paternal uncle, Count Hisamoto Hijikata, was a well known statesman who served as Minister of Agriculture and Commerce and Imperial Household Minister during the Meiji Era. On the maternal side, Hisakatsu's grandfather, Baron Yahachi Shibayama, was an admiral in the Navy who fought in both the Sino-Japanese and Russo-Japanese Wars at the turn of the century.

Hisakatsu Hijikata received his formal education at Gakushuin primary and middle schools. Later, he studied art at the Tokyo School of Fine Arts with an emphasis in sculpture. It has been said that Hisakatsu Hijikata was influenced by the prevailing artistic expressions from Europe that were attributed to the school of Cubism.

The death of Hijikata's mother was perhaps one of the decisive factors that eventually led Hijikata to leave Japan and move to Micronesia. To Hijikata, the journey to Micronesia was a soul searching trip, seeking his own self-identity and revitalizing his psychic and physical energies. He had contracted tuberculosis earlier in his life as his father did.

Hijikata's journey to Micronesia began in March, 1929, leaving Yokohama aboard the *Yamashiro-maru* and arriving in Palau via Saipan and Yap. Ironically, it was in the latter part of 1929 when the New York stock market crashed, precipitating severe economic depressions in developed nations throughout the world. After his arrival in Koror, the capital of Palau and the seat of the South Seas Government, Hijikata spent two and a half years teaching sculpture at island schools, conducting ethnographic research, creating his own art works and writing poems. Hijikata preferred to spend his time away from Koror as much as possible and spent his time instead in more serene areas in other parts of Palau such as Melekeok, Ngetbang, Ngial and Kayangel.

To fulfill his desires to be in a more pristine cultural setting away from the urbanized center of Koror, Hijikata changed his residence to the remote island of Satawal in September, 1931. Hijikata was accompanied by Sasuke Sugiura who joined Hijikata as an apprentice. Satawal is an outer island of Yap with population less than 300 at that time. Hijikata spent seven years on Satawal conducting ethnographic research as well as producing art works. The results of his research were published in his *Ethnography of Satawal, Micronesia and Folktales of Satawal*.

After the extended stay on Satawal, Hijikata made a brief stay on Palau and then returned to Japan for several months. During his visit back in Tokyo, he organized exhibits and donated artifacts that he collected in Micronesia to the Department of Cultural Anthropology at Tokyo University. These artifacts are now in the possession of the National Museum of Ethnology in Suita, Osaka. Following his interim visit to Japan, an additional two years were spent on Palau before he returned permanently to Japan in March, 1942. Later that year, Hijikata married Miss Keiko Kawana. Soon after their marriage, Hijikata was sent to Borneo where he served as Director of the Borneo Museum and Library. Due to ill health, he spent some time in hospitals in Singapore and Hong Kong before returning to Japan in the spring of 1944. After the war, Hijikata continued to engage in creative endeavors, making sculptures and line drawings of women, children, traditional architecture and landscapes of Micronesia in quiet and peaceful settings. He was 76 years old when he passed away in 1977

because of heart failure.

By some, Hijikata is referred to as the Gauguin of Micronesia because of the enormous contributions and impact Hijikata made in art. To many, Hijikata is remembered not only as an artist, but also as a keen ethnographer and poet. To others, Hijikata's legacy is passed on through his intellectual curiosities.

The Collective Works of Hijikata Hisakatsu, recently edited by Professor Endo Hisashi and published by the Sasakawa Peace Foundation, gives an excellent portrayal of the ethnography and material culture of Palau. The book provides Hijikata's observations and descriptions of the Palauan legends, artifacts, stone images, architecture, social organization, marriage and divorce, dances and other related topics of anthropological interest. The catalogue which was published in 1991 by the Setagaya Art Museum for the exhibit entitled *The Hisakatsu Hijikata Exhibition—Light and Dream in Micronesia* contains essays by Mr. Hisao Shimizu and Professor Kenichi Sudo and excellent photographs of Hijikata's art works. In addition, the English translations of Hijikata's ethnographic records concerning Palauan kinship, ceramics and stone images are available through the Micronesian Area Research Center at the University of Guam.

Hiro Kurashina, Ph.D.

Director, Micronesian Area Research Center
University of Guam

E-NEWS

Because of the volume of information received through the Net, this special section of current and upcoming newsgroups, mailing lists, and on-line databases was created. Brief descriptions and special instructions have been included. *Newsletter* readers who are not connected to the information superhighway need not feel threatened by the arcana of this section, however; we have no plans to abandon our traditional printed format.

Subscribing: characters in bold should be typed as is, but the info between < >s must be provided.

Social History of Science. A new newsgroup for social history of science has been created: **soc.history.science**. Postings to this newsgroup will be about the history of all the sciences. "Soc.history.science is needed because although the history of science is an area of significant and growing interest, currently discussion is spread out over dozens of science and history newsgroups, each with only occasional scattered postings (plus several mailing lists)."

described as obsolete). Inquiries:
 Chief Science Editor
 Oxford English Dictionary
 Walton Street
 Oxford OX2 6DP UK
 E-mail: oed3@oup.co.uk

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If you are interested in this new group and your site has not yet added it, please write to your news administrator and ask that it be added.

The Cold Spring Harbor Laboratory has created a mailing list so that people without Usenet access may still participate in this group via e-mail. Posts to the newsgroup will be sent to all members of the mailing list, and all mail to the list will be posted to the newsgroup. To subscribe, send e-mail, without a subject header, to listproc@cshl.org in the following format:

subscribe HIST-SCI <your full name>

To send mail to the list, send e-mail to hist-sci@cshl.org. For more info on this list server, send e-mail to the above address containing the word **help**.

Mosaic users may subscribe to hist-sci through a page at CSHL's WWW site (<http://www.cshl.org/>).

Russian Science. A new mailing list has been created by the Russian quarterly journal *Voprosy Istorii Estestvoznaniya I Tekhniki* (Problems on the History of Science and Technology). Planned topics of discussion include: social history of science in Russia and the Soviet Union, Russian science abroad, history of A-bomb and H-bomb projects, and international cooperation in the history of science and technology. "Since we are going first of all to establish new scientific contacts and to obtain an experience in telecommunication, we would welcome any [of] your suggestions on organization and items of our discussion." To subscribe, send e-mail to lestviet@ihst.msk.su in the following format:

sub <name> <address>

The address for posting is: xviet@ihst.msk.su. Discussions will be led in Russian by means of transliteration. The coding-decoding program is obtainable in the editorial office in Moscow:

Staropanskii 1/5
Moscow, 103012 Russia

Australian Science and Technology. A new mailing list forum has been created on a joint initiative by the Coombs Computing Unit, Research Schools of Social Sciences & Pacific and Asian Studies, The Australian National University, and Tim Sherratt, Australian Science Archives Project, Canberra office. The History of Australian Science and Technology FORUM's contributions will be diverse, yet informative, because "The Forum is more concerned with sharing information and promoting discussion between people whose interests touch on the field, than enforcing strict definition of what constitutes 'Australian science and technology'." To subscribe, send e-mail to majordomo@coombs.anu.edu.au in the following format:

subscribe hist-aust-sci-tech-l <your e-mail address>

If in doubt how to interact with any of the coombs.anu.edu.au lists, send a message 'help' to the above address. "Anyone, whether a registered member or not, can electronically view and retrieve the communications to the forum using a database 'ANU-Hist-Aust-Sci-Tech-L' accessible through the standard WAIS software and through the ANU's COOMBSQUEST Social Sciences and Humanities Information Facility gopher running on the coombs.anu.edu.au, port 70 as well as on the cheops.anu.edu.au, port 70 machines."

A WWW page is also available--the URL is:

<http://coombs.anu.edu.au/SpecialProj/ASAP/ASAPHome.html>

Technology and Society. A new mailing list has been created by IEEE Society of Social Implications of Technology and the Institute for Global Communications. IEEE is a professional association for electrical/electronic engineers and computer scientists. Topics will include: "professional ethics and responsibility; appropriate application, risks of, and access to benefits of technology; peace studies, and control of weapons and military technology; world resources and development; diversity in the engineering profession; and engineering and professional education on these issues."

To subscribe, send e-mail to:

tech+society-request@igc.apc.org

For more info, contact: a.brown@ieee.org

Philosophy of Social Sciences. A new mailing list discussion group (COCTA-L) has been created to explore "the philosophy of the social/human sciences and the discussion of basic methodological and conceptual issues in the social/human sciences."

To subscribe, send e-mail to:

listserv@nosferatu.cas.usf.edu

in the following format:

subscribe cocta-l <your name>

The address for posting is:

cocta-l@nosferatu.cas.usf.edu

BOOK REVIEWS

V.V. KRISHNA, ed., *S.S. Bhatnagar on Science, Technology, and Development: 1938-54* (New Delhi: Wiley Eastern Limited, 1993). xiv. + 290 pp. ISBN 81-224-0501-0.

There is a growing realization in the industrialized countries that a focus on per capita income has masked the emergence of India as a country with strong capabilities in

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To send mail to the list, send e-mail to hist-sci@cschl.org. For more info on this list server, send e-mail to the above address containing the word **help**.

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There is a growing realization in the industrialized countries that a focus on per capita income has masked the emergence of India as a country with strong capabilities in

science and technology. India now has the third largest number of engineers and science graduates in the world, and an infrastructure of scientific organizations and universities that can support a strong research effort in a wide variety of disciplines.

S. S. Bhatnagar was one of the pioneers who helped to establish the institutions where much of India's scientific research takes place. He was the founding director of the Council of Scientific and Industrial Research, even today one of the premier research organizations in the country. He also served as the first chairman of the University Grants Commission, which has a major say in the funding of the Universities throughout the country, and consequently on the development of scientific and technical manpower. Both organizations were started during British rule, and were modelled on the corresponding organizations in that country.

V. V. Krishna, the editor of the present volume, has compiled 34 articles written by Dr. Bhatnagar, and provided an excellent introduction. The time period covered by the book (1938-1954) was a momentous one, and included the Second World War, the partition of the sub-continent, and the emergence of India and Pakistan as independent members of the Commonwealth. Dr. Bhatnagar's essays provide an insider's perspective on the status of basic and applied science during that period, the impact of the war, British attitudes towards the development of science in India, and the post-independence organization of science in the country. The essays are collected in five sections: (I) War, Science, and Industry; (ii) The Post-War Organization of Scientific Research; (iii) Technical Education and Research in Universities; (iv) Review of Research; and (v) Inaugurating National Laboratories: On Planning and Priorities for Research.

Dr. Bhatnagar's keen interest in relating science to the welfare and interest of the general public comes through clearly in the pages of the book:

"The interest of the public in science can be aroused only if the scientist comes down from his heaven of wisdom to the earth of the common man. I must confess that although we have scientists who can solve the most difficult mathematical problems and enunciate theories which will require days for even a man of science to understand, yet there are rather few amongst us who are able to do things which inspire the interest of the common man."

The shortage of funds for research during the 1930s and 1940s was a major constraint on the development of scientific and technical institutions in India, and Dr. Bhatnagar struggled constantly to improve the situation:

"A sum of five hundred million pounds is supposed to have been spent on research work in connection with the atomic bomb and considerably larger sums of money have been voted by America, Australia, Canada, and even by Germany on their respective projects of scientific and industrial research; while India was allotted a pittance sum of rupees five lakhs (500,000; about US\$ 200,000 at that time) a year which has since been raised to rupees fifteen lakhs a year for all research work including war research spread over the whole of India."

Krishna's introduction provides good background material on the divergent views held in Imperial Britain on the funding of science in India. India's first winner of the Nobel Prize in Physics, Sir C.V. Raman, had, along with Seymour Sewell and Dr. J.C. Ghosh, proposed in 1931 and 1932 the creation of an Advisory Board of Scientific Research for India. Sir Richard Gregory, editor of *Nature*, visited India in 1933, and wrote on his return to the Secretary of State for India regarding the lack of appropriate research organizations equivalent to those of the British DSIR for the development of natural resources and new industries. Hoare advised the Viceroy, Lord Willingdon, to support the idea of an Indian DSIR. Hoare's note went to several departments, and the crucial Finance Department was unwilling to support the proposal. The Viceroy finally informed Hoare in London in May 1934 that "The creation of a Department of Scientific and Industrial Research in India to promote the application of research to natural resources and industry does not appear to be necessary." Another 8 years were to pass before the efforts of Dr. Bhatnagar, Sir Ramaswamy Mudaliar, and others finally bore fruit in the creation of CSIR.

S S Bhatnagar on Science, Technology, and Development: 1938-1954 is an important book for the historian of Indian science in the 20th century, as well as good reading for the general reader interested in the views of an eminent scientist working in a major developing country at a crucial time in its history.

Toufiq A. Siddiqi

East-West Center, Honolulu

ALAN FROST, *Sir Joseph Banks and the Transfer of Plants to and from the South Pacific 1786-1798* (Melbourne: The Colony Press, 1993). viii. + 61pp. + 1 diagram. ISBN 0-949586-08-0. A\$65.

Sir Joseph Banks was a prodigious traveler with an extraordinary breadth of interests, and should be ranked among the more remarkable European figures of the 18th century. For many years Banks advised the English king,

and a series of governments, about various matters including the drainage of wetlands, breeding sheep, coinage, manufactures, exploration, colonization, and crop cultivation (including *Cannabis*, or true hemp, a critical industrial fiber crop during his time). Under Banks's supervision, many young men were sent to far-flung places to collect strange or useful plants, insects, and animals. Many of these organisms were then sent, under his orders, to other regions; for example, he had Chinese hemp imported to England and then shipped to various English and French locations for cultivation.

Utilizing the resources of the Royal Botanic Gardens at Kew, along with various other botanical gardens in such places as Jamaica, St. Vincent, St. Helena, Calcutta, and Sydney, Banks played a major, directive role in the important, and in some cases, profound global exchange of organisms. The significance of this early intercontinental, biological trade, including the introduction and subsequent cultural and environmental impact of alien plants, animals, and even diseases, has until recently received a relatively meager amount of scholarly investigation. A notable exception to this has been the splendid work of Alfred Crosby, whose two books, *The Columbian Exchange: Biological and Cultural Consequences of 1492* (Greenwood, Westport, Conn., 1972) and *Ecological Imperialism: The Biological Expansion of Europe, 900-1900* (Cambridge University Press, New York, 1986) are thought-provoking treatises.

The book reviewed here is a welcome addition to this general subject. Indeed, Alan Frost's book offers the curious lay person, as well as the interested scholar, a wealth of information on the exchange of plants between Europe and the Americas, and between Australia and Pacific islands, in the 1780s and 1790s. From Banks's mind-boggling volume of correspondence, Frost has gleaned some fascinating excerpts from relevant letters, plus lists of plant materials which were imported and exported around the world under Banks's guidance. Although the author acknowledges the massive task that lies ahead for the British Museum of Natural History, which is now in the process of publishing all of Banks's surviving papers, Frost and The Colony Press are to be commended for producing a most attractive and engaging publication. Historians, naturalists, horticulturists, antiquarians, anglophiles, and many other interested readers will find this volume a fascinating addition to a limited literature in the field of historically oriented, cultural biogeography.

Mark Merlin
University of Hawaii

NEW AND RECENT SERIALS

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At the 1993 International Congress for History of Science in Zaragoza, the council of the **IUHPS/DHS** moved to establish a regular newsletter. The first issue of the *International History of Science Newsletter*, appeared in March 1994, under the editorship of HELGE KRAGH. Subscriptions are free. Direct correspondence to:

Helge Kragh
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The *Sigerist Circle Newsletter and Bibliography* appears twice a year, in Spring and Autumn. It is edited by PAULINE M. H. MAZUMDAR (University of Toronto), with bibliography compiled by ED MORMON (Johns Hopkins University). The focus of the Sigerist Circle is the history of medicine in relation to issues of class, race, gender, imperialism and related matters. Subscriptions are \$15/year and may be obtained from:

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Polynesia are currently being sought for the station's library. Inquiries:

Frank Murphy, Gump Station Manager
B.P. 244 TEMAE
Moorea, French Polynesia
Phone/Fax: (689) 561374
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The Inventory of Sources for History of Twentieth-Century Physics: Report and Microfiche Index to 700,000 Letters, a decade in the making, is now in world-wide distribution from GNT-Verlag. It lists detailed information on the availability of more than three-quarters of a million letters concerning the development of physics since 1896. These letters, open for scholarly research and listed by physicist author or recipient, are scattered in more than two thousand archival collections in 35 countries. The microfiche database is accompanied by a 300-page hardbound guide, and sells for US\$599 from GNT-Verlag, Postbox 81-02-63, 70519 Stuttgart, Germany.

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