

Trilateral Seminar on Science, Society and the Internet

Appendix A — Participants

Chinese

Li Xiaoming (Chair of the Chinese delegation)
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Chinese Academy of Sciences (CAS)
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Liu Gang^{*}
Institute of Philosophy
Chinese Academy of Social Sciences (CASS)
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Luo Junzhou
Department of Computer Science and Engineering
Southeast University
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^{*} Although Prof. Liu was unable to participate in the seminar, he prepared a paper, entitled: Internet Association in China: an Ethical Approach which was summarized by a colleague in Plenary Session III and is reproduced in Section II of these proceedings.

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Yang De-li
School of Management
Dalian University of Technology
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National Natural Science Foundation of China Representatives

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National Natural Science Foundation of China (NSFC)
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National Natural Science Foundation of China
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Liu Zuoyi, Director
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Japanese

Toshihiko Hayashi , Director General (Chair of the Japanese delegation)
Stanford Japan Center
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Executive Adviser to the CEO
Sumitomo Electric Industries, Ltd.
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Graduate School of Engineering
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Hitoshi Okada
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Japan Society for the Promotion of Science Representatives

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Takahiro Fujino
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American

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National Science Foundation (retired) and
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Student Participant

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National Science Foundation Representative

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* Although Ms. Westby was obliged to cancel her participation in the seminar, she contributed a paper entitled, Scientific Collaboration to Combat Terrorism which is reproduced in Section III of these proceedings.

Proceedings of the Trilateral Seminar on Science, Society and the Internet

Appendix B – Biosketches

Chinese Participants

Li Xiaoming (Chair of the Chinese Delegation)

Professor of Computer Science, Peking University, China
Vice Dean, School of Electronics Engineering and Computer Science

Date of Birth May 6, 1957
Degree Ph.D., Computer Science (Stevens Tech, USA), December 1986
 M.S., (Computer Science, Stevens Tech), May 1984
 B.E., (Computer Engineering, Harbin Institute of Tech., China),
 January 1982

Employment Professor of Computer Science, August 1997 to present, Peking
 University

 Head of Department of Computer Science, March 1999 to June 2002,
 Peking University

 Visiting Scientist, January 1995 to July 1997, NPAC,
 Syracuse University, USA

 Professor of Computer Science, December 1989 to July 1997,
 Harbin Institute of Technology

 Post Doctor, January 1988 to December 1989,
 Harbin Institute of Technology, China

 Assistant Professor, January 1987 to August 1987,
 Stevens Institute of Technology

Awards

"International Academic Exchange Award" by the Zhou Peiyuan Foundation, 1991.

Membership of Academic Associations

1. Chinese Computer Federation
2. Chinese Institute of Electronics
3. IEEE CS

Chen Chuanfu

Chuanfu Chen, born in 1962, is a professor at Wuhan University School of Information Management (SIM, WU) with a joint appointment of International Law Research Institute, and Research Center for Information Resources at Wuhan University, China. He has been an associate Dean of SIM and Director of Information Economy Division of RCIM since 1999. He teaches Intellectual Property Law, Social Information Construction and Information Management at Wuhan University. He received his S.J.D in International Law from School of law, Wuhan University in June 2001, MA in Library Science from Wuhan University in 1986

He was major investigator of Intellectual Property Issues on China National Information Infrastructure (1999 to 2001), High-tech and Intellectual Property Rights Protection and Its Impacts on Traditional Intellectual Property System (1995 to 1998) funded by China Natural Science Foundation, Intellectual Property Policy Issues on Information in Internet (2000 to 2002) funded by China Social Science Foundation, EU Integrating Protection for Copyright Ten Years Evaluation (2000-2001), EC Software and Database Legal Protection Policy and Its Impact on International Intellectual Property System (1997 to 1999) funded by EU-China Higher Education Cooperation Program.

He visited Centre d'Etudes et de Recherche en Droit de l'Immateriel, Faculte Jean Monnet, Universite de Paris Sud, France (1998), Law School of University of East Anglia, Norwich, England (1998), and Graduate School of Library and Information Science, University of Washington, Seattle, USA (1995-96)

He was elected one of the Top Ten Outstanding Youths of Wuhan University of the Year 1997.

Fan Chunliang

Name: Fan Chunliang

Sex: Male

Date of Birth: Nov. 16, 1963

Nationality: P.R.China

Position: Research Fellow, Institute of Policy and Management
Chinese Academy of Sciences (CAS)

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P. R. China

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Main Research Field:

- R&D Strategy and Management ;
- Sociology of Science

EDUCATION:

1. University of Science & Technology of China, M.S., Philosophy of Science, 1990.
2. Inner Mongolia University, B.S., Theoretical Physics, 1985.

EMPLOYMENT:

Research Fellow, Institute of Policy and Management, CAS, (2002.7-Present)

Associate Research Fellow, Institute of Policy and Management, CAS,
(1997.7-2002.7)

Assistant R Research Fellow (1992.7- 1997.7)

Liu Gang

Institute of Philosophy
Chinese Academy of Social Sciences (CASS)
No. 5 Jiannei St.
Beijing 100732, China

1998: Ph. D. in Philosophy of Science and Technology, Department of Philosophy,
Graduate School, Chinese Academy of Social Sciences (CASS), China.

1978: BA in English, Department of English, Wuhan University, China.

Professional Experience:

- | | |
|--------------|---|
| 2001-present | Deputy Director, Division of Science and Technology Philosophy, Institute of Philosophy, Chinese Academy of Social Sciences (CASS).
Professor, Department of Philosophy, Graduate School, CASS.
Research Fellow, Xinda International Fund Research Institute, Hong Kong |
| 1998-2001 | Research Fellow, Institute of Philosophy, CASS;
Fellow, Research Centre for Social Development, CASS. |
| 1995-1998 | Research Fellow, Research Centre for Social Development, CASS. |
| 1995-1997 | Director, Beijing Office of Salvaggio Research Associates, Texas, USA. |
| 1994-1995 | Senior Consultant, Han Consultant Inc., Wuhan, China. |
| 1986-1994 | Editor, Acta Mathematica Scientia (Edition in English);
Translator, Institute of Mathematical Sciences, Chinese Academy of Sciences (CAS). |
| 1982-1986 | Translator, Institute of Mathematical Sciences, CAS.
Director, San Le Technology Development Inc. Wuhan, China. |
| 1980-1982 | Interpreter/Translator, Institute of Mathematical Sciences, CAS. |
| 1979-1980 | Teacher of English, Institute of Light Industry, Wuhan, China. |

Research Projects:

- Study on Network Association in China, Central Committee of Youth League of China (Lead Researcher) (2002).
- Investigation into the Philosophy of Information, Chinese Academy of Social Sciences (Lead Researcher) (2002-2005).
- Exposition on the Concept of Humanities Computing, Centre of the Culture Studies, Chinese Academy of Social Sciences. (Lead Researcher) (2002).

- Study on Virtual Community among the Young People, Chinese Academy of Social Sciences. (Lead Researcher)(2002).
- Study on the Internationalization of Zhongguancun High Technology Zone, Beijing Zhongguancun Management Committee. (Main participant)(2002).
- Study on the Netmedia, State Broadcasting and TV Bureau and Chinese Academy of Social Sciences (Main participant) (2001).
- A Comparative Study on Legislation and Development of Western and Chinese Fund Industry, Monetary Policy Committee, Central Bank of the Chinese People. (Main participant) (2002).
- Study on the Trends and Development of the Large International Mass Communications Groups, Ministry of Publicity. (Lead Researcher) (2000).
- Study on the Complexity Science and Management, Ministry of Science and Technology (Main participant) (1999-2001).
- Study on R&D and Globalization, Ministry of Science and Technology (Main participant) (1998-1999).
- Social Impact of Information Infrastructure, Chinese Academy of Social Sciences. (Main participant) (1995-1998).
- Informatization and its Impact on Socio-Economic Development, Informatization Office of the State Council, PR of China. (Lead Researcher) (1997).

Luo Junzhou

Department of Computer Science and Engineering
Southeast University
Nanjing 210096, P. R. China

Research Interests

My research interests include protocol engineering, network management, network security, e-learning, network computing and e-commerce.

Education

March 2000 Ph.D., Computer Science, Southeast University
March 1992 M.S., Computer Science, Southeast University
January 1982 B.S., Applied Mathematics, Southeast University

Research Experience

4/99-current Professor, Departments of Computer Science and Engineering, Southeast University.
12/94-3/99 Associate Professor, Departments of Computer Science and Engineering, Southeast University.
4/87-11/94 Lecturer, Departments of Computer Science and Engineering, Southeast University.
(11/93-8/93 System Designer, Cooperative Project between China and European Union, SEMA Group, Madrid, Spain)
2/82-3/87 Assistant, Departments of Computer Science and Engineering, Southeast University.

Professional Activities

- Member of Computer Science Committee of the National Natural Science Foundation of China.
- Vice Chair of the Petri Nets Committee under the Chinese Computer Federation.
- Leader of the General Technical Group and Member of the Expert Committee for the China national Gong Guan Project “Key Technologies and Demonstration Engineering of E-Learning”.
- Member of Information Science Committee of the Natural Science Foundation of Jiangsu Province.
- Member of the editorial board for the Journal of Computer Aided Design and Graphics of China.
- Member of the Expert Committee for the National Information Engineer Certificate Examination.
- Dean of the Department of Computer Science and Engineering, Southeast University.
- Director of the Center for E-Commerce Research and Development of Southeast University.
- Deputy Director of the Center for Information Security Technology of Southeast University.

Sun Zhaobo

Professor of Nanjing Institute of Meteorology
President of the Nanjing Institute of Meteorology
Director of the WMO RMTC Nanjing, China

Education:

1. 1962-1967, Meteorology at the Nanjing Institute of Meteorology
2. 1982-1984, Further study in the Weather Service of UK
3. 1988-1989, Further study in University of Washington in Seattle of U.S

Working Experience:

1. 1970-1972, Weather forecaster in Weather Service of Jiangsu province
2. 1972-1982, Teaching at the Meteorological Dept. of NIM
3. 1984-1992, Deputy Chairman and Chairman of the Meteorological Dept. of NIM
4. 1992-1995, Deputy President of NIM
5. 1995-Present, President of NIM

Research Fields:

1. Climate variation and prediction
2. Climate system Dynamical Processes
3. Ocean-land-Atmosphere interaction

Wang Zhi-qiang

Personal Data:

Male, born on March 9, 1963, married, one daughter.

Education:

B.Sc. (Biology), Department of Biology, Lanzhou University, Lanzhou, China (1980-1984).

M.A. (Philosophy of Science), Department of Philosophy, Nanjing University, Nanjing, China (1986-1989).

Ph.D. (Philosophy of Science), Center for the Social Study of Science, Department of Philosophy, Peking University, Beijing, China (1995-1998).

Work Experience:

Assistant Lecturer, Department of Philosophy, Lanzhou University, China (1984-1986).

Lecturer, Department of Philosophy, Lanzhou University, Lanzhou, China (1989-1995).

Project Manager, Division leader, National Natural Science Foundation of China, Beijing, China (1998-2002).

Deputy Director-General, Associate Professor, Department of Policy and Regulations, China Meteorological Administration (2002----

Related Papers:

1. Zhi-qiang Wang, Ecological Evaluation and Sustainable Development (1993), *Science, Economics and Society 2*: 47-52.
2. Zhi-qiang Wang, “Yi” and “Duo” in Traditional Chinese Philosophy (1993), *Culture and Philosophy 2*: 250-255.
3. Zhi-qiang Wang, The Ancient Chinese Concept of Mind (1994), *Culture and Philosophy 2*: 150-154.
4. Zhi-qiang Wang, On China’s Policy for Science: From 1949 to 1956(1998), *Studies in Dialectics of Nature*, Vol.14. P56-61.

Related Books

1. **Zhi-qiang Wang**, Fang Huang, *Introduction to High- Science and Technology*, China Shao’er Press, 1997
2. Yu-zhi Gong, **Zhi-qiang Wang**, *The Power of Science*, He’bei Education Press, 2000.
3. **Zhi-qiang Wang**, *China’s Policy for Science*, Shang’hai Science and Technology Press(in press).

Yang De-li

Chair Professor
School of Management

Education:

1980-1983 Graduate School, Washington State University, U.S.A
1957-1962 Dalian Institute of Technology

Working Experiences:

2000-present Chair Professor, School of Management, DUT
2002-present Director, Institute of Information Security, DUT
1986-2000 Professor, SOM, DUT
1996-1999 Dean, School of Management, DUT
Visiting Professor, School of Management, SUNY/Buffalo, USA
(During 1988.12-1989.7, 1991.9-1992.3, 1992.9-1993.3, 1994.9-1995.12)
1998-1999 Senior Consultant Asian Development Bank
1983-1986 Associate Professor, DUT
1980-1983 Dept. of Computer Science Graduate School, WSU, Pullman, WA,
U.S.A

Research Field:

E-Commerce, Information Management, Supply Chain Management.

Japanese Participants

Toshihiko Hayashi (Chair of the Japanese Delegation)

Name Toshihiko Hayashi
Professor of Economics, University of the Air, Japan
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Date of Birth March 4, 1943

Degree Ph.D., Economics (Stanford University), September 1972
M.A., (Faculty of Economics, Osaka University), March 1968
B.A., (Faculty of Economics, Kyoto University), March 1966

Employment

Professor of Economics, April 2002 to present, University of the Air

Professor of Economics, April 1994 to March 2002, OSIPP, Osaka University

Dean, April 1996 to March 1998, OSIPP, Osaka University

Professor of Economics, April 1985 to March 1994, Faculty of Economics, Osaka University

Associate Professor, April 1980 to March 1985, Faculty of Economics, Osaka University

Associate Professor, September 1978 to March 1979, Department of Economics, University of California at Davis

Associate Professor, April 1971 to March 1980, Faculty of Economics, Kobe University of Commerce

Awards

"Telecommunication Social Science Award" by the Telecommunications Promotion Foundation, 1993.

Membership of Academic Associations

Japanese Economic Association
Japan Society of Information and Communication
Japanese Association for Cultural Economics
The Japanese Association for American Studies
Japan NPO Research Association

Tsuneo Nakahara

Name : Tsuneo Nakahara
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Place of Birth : Tokushima Prefecture
Nationality : Japan
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Educational Background : March, 1953 B. S. Electrical Engineering, University of Tokyo
December, 1961 Ph.D. Engineering, University of Tokyo

Career in the Company :

April 1953 Joined Sumitomo Electric Industries, Ltd. and worked on a wide range of topics in the microwave, cybernetics, electronics and communication fields at R&D Laboratories, System & Electronics Division and the Communications Division
1961 Visiting Research Professor of the Microwave Research Institute in the Polytechnic Institute of Brooklyn, N.Y., U.S.A.
July 1976 General Manger of R&D Group
July 1978 Director and General Manger of R&D Group
June 1981 Managing Director, General Manager, R&D Group
June 1982 Senior Managing Director and General Manger, R&D Group
June 1985 Executive Vice President
June 1991 Vice Chairman & Deputy CEO
June 1996 Executive Advisor to CEO
June 2002 Advisor

Activities :

1980~89 Lecturer, Faculty of Engineering, Osaka University, Japan
1981~85 Elected Member, the 12th Science Council of Japan
1983~ Fellow, the Institute of Electrical and Electronics Engineers (IEEE)
1983~97 Director, Sumitomo 3M Limited
1983~98 Member of Council for Science and Technology, Prime Minister's Office
1984~ Permanent Director, Business Research Institute, Inc.
1984~ Director, Research Association for Basic Polymer Technology
1987~ Member of Network Committee, Ministry of Posts and Telecommunication
1987~ Chairman, Advanced Optical Technology Committee, Osaka Science & Technology Center
1987~ President, Bio Material Research Institute Co., Ltd.
1987~91 Lecturer, Faculty of Engineering, Tokyo University, Japan
1988~ Director, Japan Techno-Economics Society
1988~ Vice-Chief Director, Association of Electronic Technology for Automobile Traffic and Driving
1988~ Board Member, International Superconductivity Technology Center
1988~ Board Member, The Engineering Academy of Japan
1988~ Member of Research Deliberation Committee, Highway Industry Development Organization
1989~ Member of Basic Policy Committee on Intellectual Property, Institute of Intellectual Property

- 1989~ Adviser, The Japan Research Institute, Limited
- 1989~ Vice Chairman, the Tokyo Section of the IEEE
- 1990~ Member, Industrial Technology Council of MITI
- 1991~92 Director-Elect, IEEE Region 10 (Asia Pacific Region)
- 1991~ Vice Chairman, Japan Research Industry Association
- 1991~ Vice President, The Engineering Academy of Japan
- 1992~ Advisor for National Institute of Scientific and Technological Politics, Ministry of Science and Technology
- 1992~ President, Superconducting Sensor Laboratory
- 1992~ President, Free Electron Research Institute Inc.
- 1992~ Vice Chairman, Osaka Science and Technology Center
- 1992~ Vice Honorary Director, Japan Institute of Invention and Innovation, Osaka Branch
- 1993~ Councilor, Nishina Memorial Foundation
- 1993~ Member of the Board of Trustee, Polytechnic University, N.Y.
- 1993~94 Director, the IEEE Region 10 (Asia Pacific Region)
- 1994~ Member of Panel on General Planning of Prime Minister's Council for Science and Technology
- 1994~ Chairman, International Science Club of Osaka
- 1994~ Vice Chairman, Vehicle, Road and Traffic Intelligence Society
- 1994~96 Director (Board Member), the IEEE Foundation
- 1996 Secretary, the IEEE
- 1996~97 Chairman, the IEEE Industry Relations Committee
- 1996~ Special Assistant to the Minister of State for Science and Technology
- 1997~ Member of Japan Society for the Promotion of Science
- 1997~ Member of Advisory Committee to University-Industry Cooperative Research Committees, Japan Society for the Promotion of Science
- 1997~ Vice President, the Japan Techno-Economics Society
- 1997~ Vice President, the New Technology Association
- 1998~ Member of the NIRIM Advisory Council (National Material Research)
- 1998~ Member of the Committee for NASDA Evaluation
- 1998~ Member-at-large, the IEEE Awards Board
- 1998~ Special Member, the Space Activities Commission for the Minister of State for Science and Technology
- 1998~2000 Member of the IEEE Medal of Honor Committee, the IEEE Awards Board
- 1999~2000 Chair, the IEEE Kansai Section
- 1999~ Expert Member, the National Land Development Council, the National Land Agency
- 1999~ President, the New Technology Association
- 1999~ Foreign Associate, National Academy of Engineering
- 2000~01 Director, the IEEE Foundation Board
- 2000~02 Member of the IEEE Founders Medal Committee, the IEEE Awards Board
- 2001~02 Chair, the IEEE Japan Council
- 2001~03 Member of the IEEE Service Award Committee, the IEEE Awards Board
- 2002~04 Vice President, the Japan Society for Science Policy and Research Management
- 2002~ Advisory Council Member, Japan Society for the Promotion of Science
- 2002~ Board Member, Intellectual Property Association of Japan
- 2003~05 Technical Committee Member, New Energy and Industrial Technology Development Organization

Awards :

- 1958 The Inada Memorial Award, from the Institute of Electronics and Communications Engineers of Japan
- 1959 The Okabe Memorial Award, from the Institute of Electronics and Communications Engineers of Japan
- 1972 IEEE Paper Award of Vehicular Technology Society
- 1983 Distinguished Service Award of the Laser Society of Japan
- 1983 IEEE Fellow
- 1991 Bridge Awards of Penn. State University
- 1991 The Harry C. Gatos Distinguished Lecturer Awards of MIT
- 1994 Blue Ribbon Medal from the Emperor of Japan for his of optical fiber and related technologies
- 1997 The Special Award of Superconducting Science and Technology
- 1999 The Award of the Minister of International Trade and Industry
- 1999 Honorary Member, Japan Society for Simulation Technology
- 2000 IEEE The Third Millennium Medal
- 2000 Memorial and Service Award from Japan Institute of Invention and Innovation
- 2002 Takayanagi Memorial Award
- 2002 IEEE Eric E. Sumner Award
- 2002 IEEE Alexander Graham Bell Medal

Hisako Koura

Name Hisako Koura
Associate Professor of Osaka University

Date of Birth July 13, 1957

Degree Ph.D., Engineering (Osaka University), 1996
B.A., (Faculty of Human Sciences, Osaka University), 1981

Employment

Associate Professor of Urban Planning, April 1997 to present
Graduate School of Engineering, Osaka University
Research Assistant of Architecture, March 1992 to March 1997, Osaka University
Researcher and Planner at Sogo Chosa Sekkei Co., December 1984 to April 1992
Researcher at Osaka Chamber of Commerce and Industry, April 1981 to July 1992

Study Field Urban Planning

Membership of Academic Associations

City Planning Institute of Japan
Architectural Institute of Japan
Association of Urban Housing Sciences
Japan Association for Planning Administration

Hitoshi Okada

Associate Professor, National Institute of Informatics,
Information Institution Research, Human and Social
Information Research Division

EDUCATION:

1999-2000 Osaka University, School of International Public Policy, Japan
Doctor of International Public Policy. (DR.IPP)

Designed research focusing the area of interests including: policy and economic analysis of building electronic commerce network using IC card or mobile phone, economic development with help of electronic currency.

Wrote a dissertation about the law and economics analysis of electronic money, electronic certification, and privacy policy.

1997-1999 Osaka University, School of International Public Policy, Japan
Master in International Public Policy. (M.A.IPP)

Designed research focusing the area of interests including: public policy analysis of electronic money and electronic settlement.

Wrote a master degree paper about public policy analysis of electronic money and electronic settlement, which won the 13rd.

TAF Social Studies Student's Award from the Telecommunications Advancement Foundation (TAF).

1988-1989 University of Tokyo, Japan
Bachelor of Public Law (LL.B).

Majored in Public Law.

Won the prize contest by research on "Stock Holder's right of voting at the confirmative meeting" from Kawakami Memorial Foundation.

1984-1988 University of Tokyo, Japan
Bachelor of Private Law (LL.B).

Majored in Private Law.

POSITION HELD:

2000-present National Institute of Informatics
Associate Professor

1999-2000 Osaka University
Assistant Research Fellow at the Donation Course of Personal Finance Service
Research.

RESEARCH PROJECT:

Project Manager of "the Country-by-country comparison research on system platform construction of electronic commerce," a part of "the Informatics Studies for the

Foundation of Information Technology Evolution," Grants-in-Aid for Scientific Research funded by Ministry of Education, Culture, Sports, Science and Technology, Japan (2001-present).

Participating "the Electronic Finance Research Project," a private research group in the Financial Service Agency Japan (FSA), to clarify the legal character of the electronic money systems (2002-present).

Participated "the Information Technology Evolution and the National Security Research Project", the Japan Institute of International Affairs (JIIA), based on request from the Ministry of Foreign Affairs Japan (MOFA), 2001.

Participated the 1st IFPA-OSIPP Workshop held at Washington, D.C. on 2000 to talk about "the Japanese experiences in coping with recent cyber attacks," which is the co-project between Institute for Foreign Policy Analysis (IFPA) and the Osaka School of International Public Policy (OSIPP) to establish the Japan-USA cooperative crisis management system, including the institutional system for the cyber crisis.

Research Project about the Information Industries Workers's Ethics in the USA, based on request from the Engineer Organization Japan, which is established under the Law of Engineer, (co-research with Dr. Shiro Uesugi at Matsuyama University), 2000.

Academic investigation about the Privacy Policies in the USA and the EU countries, under the scholarship from the Japan Society of Information and Communication Research (JSICR), 2000.

Research Project about the electronic commerce policies in the EU countries and its implimentation to Japansese cyber society, under the sponsorship from Matsushita International Foundation (a charitable organization of Panasonic electric Group), 1999.

PUBLICATION (Book in Japanese):

“CYBER SYAKAI NO SYOU-TORIHIKI”(“E-business in the cyberspace: Legal and economic analysis of e-commerce and e-money”)

<http://www.amazon.co.jp/exec/obidos/ASIN/4621070193/>

SELECTION OF PAPERS (in Japanese):

Shiro Uesugi, Hitoshi Okada, “Educating Cyber Ethics in the United States,” FACE2001-2(2001-05), Technical Report of IEICE, 2001.

Hitoshi Okada, "System Analysis Concerning Electronic Signature and Attestation Business: the role allotment between market mechanism and governmental leadership toward the electronic infrastructure", International Public Policy Research Vol.5, No.1, Osaka University international public policy academy, pp.79-98, 2000.

Hitoshi Okada, "Privacy of Cyber Society: electronic money selects the cyber lifestyle and the cyber green card", Student and Info-Com. thesis ISID prize winning papers, pp.7-20, 1999.

Hitoshi Okada, "Privacy Policy of Cyber Society: Can the EU type regulation policy and the USA type self regulation policy be harmonized ?", International Public Policy Research Vol.3, No.2, Osaka University international public policy academy, pp.273-290, 1998.

Hitoshi Okada, Masaru Ogawa, "Overall and Domination Analyses of Electronic Money by Game Sense Decision Making Theory AHP and DEA", Technical Report of IEICE vol.99, No.348, pp.21-26, 1999.

Hitoshi Okada, "Public Policy Analysis of Electronic Settlement Systems", International Public Policy Research Vol.3, No.1, Osaka University international public policy academy, pp.187-205, 1998.

MEMBER:

The Institute of Electronics, Information and Communication Engineers (IEICE)

The Japan Society of Information and Communication Research (JSICR)

The Japan Society for Management Information (JASMIN)

The Public Policy Studies Association Japan (PPSAJ)

Masao Sakauchi

Masao Sakauchi is a Deputy Director General, National Institute of Informatics, Japan and professor, Institute of Industrial Science, Univ. of Tokyo. He received the B.Sci. degree in Electrical Engineering from the Univ. of Tokyo in 1969 and the M S and Ph D degrees in Electronics Engineering from the Univ. of Tokyo in 1971 and 1975, respectively.

He has acted as, General chairman and Program chairman of 9 International Conferences and Workshops, Including the IEEE International Workshop on Machine Vision and Machine Intelligence (1987), IAPR and IEEE International Conference on Document Analysis and Recognition (ICDAR '93) (1993), IEEE International Conference of Multimedia Processing and Systems (IEEE Multimedia 96) (1996), ITSC 99 (1999). He wrote over 340 refereed papers in the research fields of multimedia databases, multimedia systems, image processing and understanding, spatial data structures, and geographical information systems and fault tolerant computing.

He is now the project leader of two big research project on Multimedia Mediation Systems and ITS, and vice chairman of ITS Japan.

Shinji Shimojo

Education:

1983: Master of Engineering, Faculty of Engineering Science, Osaka University

1986: Doctor of Engineering, Faculty of Engineering Science, Osaka University

Academic Career:

- 1986-1989 Assistant Professor, Dept. of Information and Computer Sciences, Faculty of Engineering Science, Osaka University. Conducted researches on distributed system and computer aided education. Led undergraduate students' projects in making a simple router with unix operating system
- 1989-1991 Lecturer, Computer Center, Osaka University
Authored articles for computer center to introduce new services such as unix workstations, supercomputer and graphics workstations. Engaged in the procurement process of a supercomputer and several general purpose computers, and conducted research on a distributed multimedia system: "harmony", which is one of the first prototype systems on multimedia.
- 1991-1998 Associate Professor, Computer Center, Osaka University
Engaged in a procurement process of a supercomputer and general purpose computer several times.
Led the development team for a campus wide network, "ODINS". Installed in 1995, it became the first ATM based campus wide network in Japan.
Led multimedia research team to conduct research on multimedia database, multimedia network and distributed system.
- 1999-2000 Professor, Computer Center, Osaka University
Led the development of a campus wide distributed learning system on top of ODINS.
Conducted research on QoS for multimedia systems such as VoD and Networked Virtual Reality system.
- 2001- Computer Center becomes Cybermedia Center.
Continue to serve as a Professor.
- 1997 Visiting scholar at the Dept. of Information Science, University of
Feb.-Oct. California, Irvine.

Professional Activities:

He is a member of ACM, IEEE, IEICE, ISPJ, JSSST, ITRC.

He was a Technical Program Committee member of the following Conferences:

1997 MMM (Multimedia Modeling)

1997 Digital Media Information Base (DMIB '97)

2000 The Second Kyoto meeting on Digital Cities PC member

2001 International Conference on Human Society Country General Co-Chair

2001 JSPS Workshop on Applied Information Technology for Science
(JWAITS 2001) PC chair

Major Joint Projects:

- 1995 Mar.-1997 Mar. On-Line University (OLU) Project
OLU project is a multiparty research project in which eighteen universities and three private institutes are joining forces to develop key technologies in information and communication areas (in the twenty-first century, or for the twenty-first century, note they have different meanings). NTT offered a nation wide ATM network for this research project. He is a member of the leading group of the project.
- 1996 - Cyber Kansai Project
CKP is an independent initiative which consists of business, government and academic people. Its twin aims are; to further the development of advanced Internet utilization, and to transfer its benefits to broad segments of society.
We designed Internet services for APEC OSAKA 1995 and performed mediacasting through Internet for UNFCCC COP3 in 1997 and COP4 in 1998 (or for UNFCCC OP3 and OP4, in 1997 and 1998, respectively), with the cooperation of UNFCCC.

Publications (Refereed journals):

- Kiyokazu Yoshida, Hirotaro Mori, Shinji Shimojo, Youki Kadobayashi, Toyokazu Akiyama and Mark H. Ellisman, "Design of a remote operation system for trans-Pacific microscopy via international advanced networks," *Journal of Electron Microscopy*, vol.51, Supplement, pp.253-257, March 2002.
- Susumu Date, Yuko Mizuno-Matsumoto, Youki Kadobayashi, Shinji Shimojo, "An MEG data analysis system using Grid technology," *IPSJ (Information Processing Society of Japan) Journal*, vol.42, No.12, pp.2952-2962, December 2001.
- Yuko Mizuno-Matsumoto, Susumu Date, Yuji Tabuchi, Shinichi Tamura, Yoshinobu Sato, Reza A. Zoroofi, Shinji Shimojo, Youki Kadobayashi, Haruyuki Tatsumi, Hiroki Nogawa, Kazuhiro Shinosaki, Masatoshi Takeda, "Telemedicine for Evaluation of brain Function by a Metacomputer," *IEEE Trans. Info. Tech. Biomed.*, Vol.4, No.2, pp.165-172, June 2000.
- Kaname Harumoto, Tadashi Nakano, and Shinji Shimojo, "An Architecture for Adaptive Multimedia Content Delivery," *New Generation Computing*, Vol.18, No.4, pp.375-389, September 2000.
- Youki Kadobayashi, and Shinji Shimojo, "Issues in augmenting Diffserv to meet application's CoS requirements", *IEICE Trans. Info. & Syst.*, Vol.E83-D, No.5, pp.965-971, May 2000.
- Masatoshi Arikawa, Shinji Shimojo, Akira Amano, Kaori Maeda, Reiji Aibara, Kouji Nishimura, Kaduo Hiraki, and Kazutoshi Fujikawa, "Real-Time Spatial Data Management for Scalable Networked Augmented Virtual Spaces," *IEICE Trans. on Information and Systems*, Vol.E82-D, No.1, pp.99-112, January 1999.

Masashi Ueda

Degree: M.A., (Faculty of Informatics, Kyoto University), March 2000
B.A., (Faculty of Economics, Kyoto University), March 1998

Study Field: Network Economics, Environmental Economics

Education:

April 1994 - March 1998 Faculty of Economics, Kyoto University

April 1998 - March 2000 Master course in Faculty of Informatics,
Kyoto University

April 2000 – March 2003 Doctor course in Faculty of Informatics,
Kyoto University

Awards:

Academic Award of Hamanaka Town, Hokkaido, 2000

Membership of Academic Associations:

Information Processing Society of Japan

Society for Environmental Economics and Policy Studies

Publications/Bibliography

T. Ida, M. Ueda (2003) 'The Interconnection and Pricing of the Internet,' M. Kagami, M. Tsuji and E. Giovannetti eds. "Information Technology Policy and the Digital Divide: Lessons for Developing Countries," Edward Elgar.

M. Ueda (2003) 'Recovery of Clusters in the Kansai Area: A Case Study of Shinsaibashi and Higashi Osaka,' M. Kagami and M. Tsuji eds. "Industrial Agglomeration: Facts and Lessons for Developing Countries," JETRO-IDE.

Shiro Uesugi

Associate Professor, Matsuyama University
Faculty of Business Administration

EDUCATION:

1999- 2001 Osaka University, School of International Public Policy, Japan
Doctor of International Public Policy. (DR.IPP)

Designed research focusing the area of interests including: policy and economic analysis of building bottom-up styled telecommunication network (why people are voluntarily contribute to build internet?), regional development with help of local currency (can e-cash help regional development?), digital media in community development (why digital media contribute development in community?). Wrote a dissertation about the analysis of economic and policy issues of bottom up digital communication network (*Microdesic Network*).

1996-1998 Harvard University, John F. Kennedy School of Government
Master in Public Administration. (MPA)

Designed program with emphasis on political and economic development in both private sector and non-profit sector. Course work includes policy analysis, science and technology policy, organizational management, and international trade and finance analysis. Research topics included "Microfinance Securitization" and "Japanese Big Bang."

Co-chair of Japan Caucus (Designed and published Caucus's web pages). Member: Asian Student Caucus, Pacific-rim PIC

1985-1989 Osaka University, Japan
Bachelor of Economics (BEc).

Majored in Macroeconomics Theory and Policy. Won the university's prize contest by co-work research on "Impact Analysis of the Capital Growth on Japanese Economy during 1985 and 1987." Gained scholarship from Ministry of Education to study in Australia from 1987 to 1988. Studied Japanese Economy and Economic Policy(JEEP), and Econometrics at The Australian National University.

Acted as Accounting Manager of Osaka University Youth Hostel Club. Planned spring and summer camping tours for junior high school students. Spent one summer for archaeological excavation in Kyoto. Unearthed two one thousand year aged coins by luck.

POSITION HELD:

2002- present Matsuyama University
Associate Professor

Teach courses including: "Management Information System," "General Theory of Management Information System," "Information Society," and seminars of information society.

2001-2002 Matsuyama University

Full-time Lecturer

Taught courses including: "Management Information System," "Computer Ethics," and seminars of information society.

2000-2001 Kobe City University of Foreign Affairs

Part-time Lecturer

Taught a course of "Modern Japanese Economic Policy."

1998 Summer The Bank of Tokyo-Miutsubishi, Loan Policy Division

Manager.

Sold off multi-million bad loans to foreign investors as a manager in charge of preparing legal documentation. Acted as a liaison between Financial Supervisory Agency and Federation of Bankers Association.

1996 (Spring) The Bank of Tokyo-Miutsubishi, Shimbashi Office Tokyo, Japan

Manager.

After the merger of two banks, led four members team to solicit new customers for two months. Gained three new corporations as major clients.

1994-1996 The Bank of Tokyo, Shimbashi Office Tokyo, Japan

Assistant Manager

Corporate Banking Division. Marketing and soliciting new customers. Call and visit more than 100 companies per month. Lead three member soliciting team. Gather raw and hot voices and news from companies as well as from internet surfing. Increased assets by 2.3 billion yen for two major clients, one for 1.7 billion yen, by introducing Asset-Backed Commercial Paper Program (a method of "accounts receivable" sales for low cost financing), and one for 6 million yen, by enabling the bank to participate Japan's first Operational Lease Syndication which meets FASB rule. Played a key role in studying the program and coordinating bank's decision making.

1992-1994 Ministry of Foreign Affairs Tokyo, Japan

Researcher.

Participated several OECD meetings at Paris as an official delegate. Reported to OECD's Development Assistance Committee(DAC) about Japan 癡 aid procurement system. Conducted research on Japan's Official Private Sector Aid. Initiated an international conference on "South-South Cooperation" held in Sri Lanka hosted by OECD Development Centre and Colombo Plan, and financed by the government of Japan. Played a role of planner and liaison officer. Prepared policy papers for other conferences including "Official Aid and Democracy."

1989-1992 The Bank of Tokyo, Tokyo, Japan

Various positions necessary for bank officers in both domestic business and international business including trade and foreign exchange.

PUBLICATION (Book in Japanese)

“KOREKARA NO ITC” (“The Future ITC”) SPC press (March 2002).

SELECTION OF PAPERS

(in English)

Takeshi Shinohara, Hidehiko Sanada, Shiro Uesugi “Microdesic network as the basis for WLL”, Proc. ITU Telecom Africa 2001, pp.SH1-11 (Nov.2001).

Shiro Uesugi, Hidehiko Sanada, Takeshi Shinohara “Microdesic Network”, Proc. INFORMS/KORMS 2000 pp.1438-1447 (Jun. 2000).

“Microfinance securitization”, Master’s research (unpublished), Harvard University J.F. Kennedy School of Government (May 1998).

(in Japanese)

Eizen Kimura, Shirou Uesugi, Masahito Ohnishi, Norihiko Tateichi, Ken Ishihara, “A Proposal of Structuring Medical Information Network with the Function of Secure Information Interchange and Policy Matching by the Combination of VPN with Autonomous Decentralized Comparison Environment Architecture” Vol. J85-D-1 No.7 pp.603-613, The Transactions of The IEICE (July 2002).

Shiro Uesugi, Hidehiko Sanada, “Proposal of Electric Community Money System for Assisting Volunteer Activities” FACE2000-29(2001-03), Technical Report of IEICE (March 2001)

Shiro Uesugi, Hidehiko Sanada, “Comparative Study of Regulations over Powerline Communication in Japan, the United States and Europe” IT2000-111, ISEC2000-165, SST2000-195, IST2000-120 (2001-03), Technical Report of IEICE (March 2001)

Shiro Uesugi, Takeshi Shinohara, Naoki Mizutani, Hidehiko Sanada, “On Production System in Next Generation Office”, OFS2000-34, IE2000-40(2000-09), Technical Report of IEICE (September 2000)

Shiro Uesugi “On Mobilization of Volunteers with assistance of Internet”, Proc. The 17th Symposium on Informatics, Informatics 2000, pp9-16., (January 2001).

Shiro Uesugi “Microdesic network”, vol.49 No.3,4, Osaka University Economic Papers, pp.27-42., (March 2000).

MEMBER:

The Institute of Electronics, Information and Communication Engineers (IEICE)

IEEE

Japan NPO Research Association

Japan Society for the Study of Office Automation

Suguru Yamaguchi

Suguru Yamaguchi received the M.E. and D.E. degrees in computer science from Osaka University, Osaka, Japan, in 1988 and 1991, respectively.

From 1990 to 1992 he was an Assistant Professor in Education Center for Information Processing, Osaka University. From 1992 to 1993, he was with Information Technology Center, Nara Institute of Science and Technology, Nara, Japan, as an Associate Professor. From 1993 to 2000, he was with Graduate School of Information Science, Nara Institute of Science and Technology, Nara, Japan, as an Associate Professor. Currently, he is a Professor with the Graduate School of Information Science, Nara Institute of Science and Technology, Nara, Japan. He has been also a member of WIDE Project, since its creation in 1988, where he has been conducting research on network security system for wide area distributed computing environment. His research interests include technologies for information sharing, multimedia communication over high speed communication channels, network security and network management for the Internet.

US Participants

Wesley Shrum (Chair of the US Delegation)

Wesley (“Wes”) Shrum was born in 1953 and grew up in Kansas City, Kansas. He received a B.A. from the University of Kansas and a Ph.D. from Princeton in 1982. Since that time he has been on the faculty in the Department of Sociology at Louisiana State University. His teaching interests are narrow: Introductory Sociology (approximately 10,000 students so far!), the Sociology of Science and Technology, and Contemporary Sociological Theory. His research perspective is best described as a social network approach (the study of social relationships, their patterns and their effects). This interest led to a variety of research projects, including inter-racial friendships among schoolchildren in a small Louisiana town, relationships among science and technology organizations, the effects of social relations on governmental planning, fear of crime and security measures in a white Southern community, ritual disrobement at Mardi Gras, and the role of the critic in high and popular art.

For the past ten years Professor Shrum's research has focused on the collaborative process in science and technology. With colleagues at the American Institute of Physics he has examined the formation, organization, and outcomes of 53 large, multi-institutional projects in high energy physics, space science, geophysics, and a variety of other fields (*The Structure of Scientific Collaborations*, W. Shrum, J. Genuth, and I. Chompalov, forthcoming).

Since the early 1990s Professor Shrum has also been engaged in a long term study of research communication in the developing world, focusing on Kenya, Ghana, and the Indian State of Kerala. Universities, governmental research institutes, and nongovernmental organizations are the most important sectors for the production and dissemination of knowledge in the developing world. Network analysis shows that communication networks are mostly local, but that there is an inverse relationship between internal and external communication networks. Currently, Professor Shrum is engaged in a five year project, funded by the National Science Foundation, to examine the effects of the Internet on these communication patterns.

William Blanpied

William A. Blanpied is Visiting Senior Research Scholar in the Science and Trade Policy Program at George Mason University. Prior to his retirement from the federal government in January 2003 he had been, since 1983, Senior International Analyst at the National Science Foundation (NSF), except for the period from July 1999 through August 2002 when he served as Director of the National Science Foundation's (NSF) Tokyo Regional Office in the US Embassy.

During his three-year tenure in Tokyo, Blanpied traveled extensively in Japan and East Asia in order to collect information for a number of reports on significant science policy events occurring in the region. He also maintained his involvement in organizing a series of US-China science policy seminars, the first of which was held in Beijing in October 1999. Prior to his departure for Tokyo in July 1999, Blanpied was responsible for evaluating U.S. and foreign science and technology policies and in analyzing opportunities for scientific cooperation in various regions, including East Asia, Central/Eastern Europe and the NAFTA region. He was US delegate and, for four years, Chair of the Organisation for Economic Co-operation and Development's (OECD) Group on the Science System, and has served a consultant to the OECD Megascience Forum (now the Global Science Forum) since its creation in 1992. Blanpied also served as NSF's principal liaison officer for the International Council of Scientific Unions (ICSU).

Blanpied's international experience prior to joining NSF included extended periods of working residence in Italy (as a post-doctoral fellow at the National Synchrotron Laboratory at Frascati) and India, where he served as resident physicist with the National Science Foundation's Science Education Liaison Staff in New Delhi from 1969-71. During his two years in India, he became interested in the development of modern science in Asia and has written and lectured extensively on that topic. Blanpied's current scholarly interest is in the development of science policy in the post-World War II period. He has presented invited lectures in several countries, including India, Hungary, Japan, Mexico and the People's Republic of China. During the early 1990s, he served concurrently as Chair of the American Physical Society's ad-hoc Task Force on the Crisis of Physics in the Former Soviet Union, and its Forum on International Physics.

Blanpied joined NSF in 1976 as Program Manager for Ethics and Human Values in Science and Technology. Subsequently, he served as Head of the Office of Special Projects in the Office of the Director before joining the Division of International Programs (since 2001 the Office of International Science and Engineering) in 1983. Prior to his service with NSF, he held faculty appointments in the physics departments at Case Western Reserve, Yale, and Harvard Universities, where his research interests were in experimental particle physics. While at Harvard, he established and served as first editor of an international newsletter that has since evolved into the quarterly

journal, *Science, Technology and Human Values*. He left Harvard in 1974 to become Head of the Division of Public Sector Programs at the American Association for the Advancement of Science (AAAS), where he was among those responsible for instituting the annual AAAS budget analysis and the series of annual meetings which evolved into the AAAS Science and Technology Policy Colloquia.

Blanpied received his BS degree from Yale University in 1955 and his PhD in physics from Princeton University in 1959. He is a Fellow of the American Association for the Advancement of Science and the American Physical Society. From 1987 to 1989 he was on leave of absence from NSF as Scholar in Residence at the Graduate School of International Relations and Pacific Studies at the University of California, San Diego, and was an Adjunct Professor at George Mason University's International Institute from 1991 to 1996. He is the author or co-author of three books, and has published numerous articles and reviews in the professional literature on physics, history of science, international science, and science policy, including both its national and international aspects. In April 2003 Blanpied was designated as a Foreign Associate of the National Institute for Science and Technology Policy in Tokyo. During the Autumn 2003 semester he was a Visiting Professor in the School of Public Policy and Management at Tsinghua University, Beijing, China.

Geoffrey C. Bowker

Geoffrey C. Bowker is Professor in and Chair of the Department of Communication, University of California, San Diego. He received his Ph.D. in History and Philosophy of Science at Melbourne University.

Bowker studies social and organizational aspects of the development of very large-scale infrastructures. His first book (*Science on the Run*, Cambridge, MA: MIT Press) discussed the development of information practices in the oil industry. He has recently completed (with Leigh Star) a book on the history and sociology of medical classifications (*Sorting Things Out: Classification and Practice* - published by MIT Press in September 1999). This book looks at the classification of nursing work, diseases, viruses and race. Bowker has co-edited a volume on computer support cooperative work (*Social Science, Technical Systems and Cooperative Work: Beyond the Great Divide*, LEA Press, 1997). He is currently working on an NSF funded project to examine the mobility of knowledge in distributed scientific collaborations (<http://www.dkrc.org/>) and on a second digital government project on long term databases in environmental science (<http://pal.lternet.edu/dm/projects/02bdei/>). He has just finished the manuscript of a book, entitled *Memory Practices in the Sciences* about formal and informal record keeping in science over the past two hundred years.

Bowker is a member of an OECD working group on international data sharing in science (<http://dataaccess.sdsc.edu/>). He is on the steering committee of the University of California Digital Cultures project. More information can be found at his website: <http://weber.ucsd.edu/~gbowker>.

Barry Bozeman

Barry Bozeman is Regents' Professor of Public Policy, School of Public Policy, Georgia Institute of Technology.

Bozeman specializes in science and technology policy, as well as organization theory and design. He is the author or editor of fourteen books, including *Limited by Design: R&D Laboratories in the U.S. National Innovation System* (Columbia University Press, 1998). Other books include *Investments in Technology* (with Albert Link). He is currently writing a book on the implementation of "megatechnology" computer systems in government. Bozeman has published research papers on a variety of topics including collaboration in science and scientific networks, value of scientific information (focusing specifically on the Internet), and technology transfer. His work has appeared in such journals as *American Journal of Political Science*, *Policy Sciences*, *Journal of Policy Analysis and Management*, *Public Administration Review* and *IEEE Transactions in Engineering Management*. He has received awards for his research from the Academy of Management (Best Conference Paper Award, Best Article Published about Public Management), the *Journal of Public Administration Research and Theory* (Best Paper), the *American Review of Public Administration* (Stene Award for Best Paper), and the *American Society for Public Administration* (Charles Levine Award for Career Research, Teaching and Service), among others. In 1998, he delivered the Rector's Lecture at Helsinki University and received the University Medal in recognition of his work on public organization theory.

For nearly 20 years, Bozeman was on the faculty of the Maxwell School of Public Affairs, Syracuse University, where he was jointly appointed in the L.C. Smith College of Engineering and was founding Director of the Center for Technology and Information Policy. Bozeman joined the faculty of the Georgia Institute of Technology as Director of the School of Public Policy in April, 1994, stepping down in 1998 to assume directorship of the Research Value Mapping research program and the State Data and Research Center. Other faculty or research appointments include: Distinguished Research Fellow, Center for Science Policy and Outcomes, Columbia University (2001-), University of Michigan (visiting), University of Copenhagen (visiting) and Japan's National Institute of Science and Technology Policy.

Currently, Bozeman has grants from the National Science Foundation, the Department of Energy and the National Institutes of Health. These grants support work on scientific collaboration, the structure of interdisciplinary science centers, and evaluation of science centers' ability to contribute to scientific and technical human capital. Bozeman has been involved in a wide array of public policy consulting activities. Among others, he has served as a technology policy consultant to the Department of Commerce, Office of the Assistant Secretary for Technology Policy, the Ministry of Planning, France, the United Nations development management programs, the U.S. National Science Foundation, and New Zealand's Ministry of Science and Technology.

Bozeman's public service activities have been diverse and include service on a National Research Council (NRC) panel advising the Department of Energy on peer review, another NRC panel advising the Internal Revenue Service on its \$8 billion effort to modernize its computer systems, and chairing the Atlanta City Council's Committee on Water and Sewer Privatization. He was also the founding organizer of the National Public Management Research Conferences. Bozeman was recently appointed to the National Cancer Policy Board (Institute of Medicine) panel on Large Scale Science in Cancer Research.

Bozeman received his Ph.D. in Political Science from Ohio State University.

Pauline Newman

Pauline Newman is Circuit Judge, United States Court of Appeals for the Federal Circuit. She was born June 20, 1927 in New York, New York; daughter of Maxwell H. and Rosella G. Newman; B.A. degree from Vassar College in 1947, M.A. in Pure Science from Columbia University in 1948; Ph.D. degree in chemistry from Yale University in 1952; LL.B. degree from New York University School of Law in 1958; admitted to the New York Bar in 1958 and to the Pennsylvania Bar in 1979.

Newman worked as research scientist for the American Cyanamid Company from 1951-1954; worked for the FMC Corporation from 1954-1984 as patent attorney and house counsel, and from 1969-1984 as Director of the Patent, Trademark, and Licensing Department; on leave from FMC Corporation worked for the United Nations Educational, Scientific and Cultural Organization as a Science Policy Specialist in the Department of Natural Sciences, 1961-1962.

The offices she has held in scientific and professional organizations include: Board of Directors of the American Chemical Society, 1973-1975, 1976-1978, 1979-1981; Board of Directors of the American Institute of Chemists, 1960-1966, 1970-1976; Council of the Patent, Trademark and Copyright Section of the American Bar Association, 1982-1984; Board of Directors of the American Patent Law Association, 1981-1984; Vice President of the United States Trademark Association, 1978-1979, and member of the Board of Directors, 1975-1976, 1977-1979; Board of Governors of the New York Patent Law Association, 1970-1974; President of the Pacific Industrial Property Association, 1978-1980; Executive Committee of the International Patent and Trademark Association, 1982-1984.

Her other volunteer activities include: Advisory Council, PTC Research Foundation of Franklin Pierce Law School, 1973-present; Advisory Council, George Mason University School of Law, 1988-present; Board of Directors, New York University Alumni Association, 1987-present; Board of Directors, United States Patent Model Foundation, 1986-present; Trustee, National Invention Center, 1989-present; Board of Directors, Foundation for a Creative America, 1989-present; Board of Trustees of Philadelphia College of Pharmacy and Science, 1983-1984; Patent Policy Board of State University of New York, 1983-1984; National Board of Medical College of Pennsylvania, 1975-1984; Board of Directors of Research Corporation, 1982-1984; Distinguished Professor of Law, George Mason University, 1994-Present.

The US Governmental committees she has served on include: State Department Advisory Committee on International Intellectual Property, 1974-1984; Advisory Committee to the Domestic Policy Review of Industrial Innovation, 1978-1979; Special Advisory Committee on Patent Office Procedure and Practice, 1972-1974; United States Delegation to the Diplomatic Conference on the Revision of the Paris Convention for the Protection of Industrial Property, 1982-1984.

Judge Newman's published articles include: "Toward Economic Recovery: University/Industry Cooperation", IDEA, *The Journal of Law and Technology* 25 (2), 77 (1984); "The Patent System and Industrial Innovation", in *Innovation and the American Economy*, the Franklin Institute Press (1980); "Proposed Revisions in the Patent Law", in *Legal Rights of Chemists and Engineers*, American Chemical Society (1977); "What the Patent Attorney Needs from a Patent Information Point of View", with Erick I. Hoegberg, *Journal of Chemical Information and Computer Sciences* 18, 83 (1978); "Non-Binding Conciliation Between Japanese and American Companies", IDEA, *The Journal of Law and Technology*, Winter 1976.

She has been awarded: the Wilbur Cross Medal of the Yale University Graduate School (1989); the Jefferson Medal of the New Jersey Patent Law Association (1988); Award for Outstanding Contribution to International Cooperation of the Pacific Industrial Property Association (1987); Doctor of Laws, Franklin Pierce Law Center (1991).

She was appointed Judge of the United States Court of Appeals for the Federal Circuit by President Reagan and entered upon duties of that office on May 7, 1984.

J. Thomas Ratchford

Before joining George Mason University in 1993, Dr. Ratchford was Associate Director for Policy and International Affairs at the White House Office of Science and Technology Policy (OSTP). Prior to confirmation by the Senate to his OSTP position in 1989, he was the Associate Executive Officer of the American Association for the Advancement of Science (AAAS). Dr. Ratchford is also CEO of STTA, LC.

A condensed matter physicist, Dr. Ratchford has served on university faculties and research staffs of private and governmental laboratories. As a professional staff member and subcommittee staff director of the House of Representatives' Committee on Science in the 1970s, he was one of the first scientists to serve the Congress full-time. He was selected a Congressional Fellow of the American Political Science Association, a fellow of the AAAS and the American Physical Society (APS), and a member of the Council on Foreign Relations. He is active in international science and technology programs in the U.S., Asia, and Europe, and chairs the U.S. side of the U.S.-China Science Policy Initiative for the National Science Foundation.

Dr. Ratchford directs The George Mason University Law School's Tech Center's Science & Trade Policy Program. He publishes extensively on U.S. and global trade and technology trends and policies.

Education

University of Virginia, Ph.D. in Physics

University of Virginia, M.A. in Physics

Davidson College, B.S. in Mathematics and Physics

Joan Sieber

Joan E. Sieber is trained as a social psychologist; she received her Ph.D. degree from the University of Delaware in 1965. She is now Professor Emerita of Psychology at California State University, Hayward. Her early work in social psychology centered around methodology and decision-making behavior. However, her research emphasis during the last twenty-five years has been the behavior of scientists in relation to value issues that arise in social and behavioral science, including data sharing, design of research to solve validity and ethical problems simultaneously, development of culturally sensitive research procedures, approaches to informed consent, and methods of assuring privacy and confidentiality. The premise of this work is that social science theory and methods can be used to study how ethical dilemmas arise in research, and to devise methods for ameliorating or circumventing them. She frequently presents workshops on ethical problem solving in research at universities, agencies, and meetings of professional organizations, and serves on the boards of various organizations that are concerned with the ethics of social and behavioral research. Her recent books include *Research Ethics: A Psychological Approach* (with B. Stanley & G. Melton), *Planning Ethically Responsible Research*, *The Ethics of Social Research* (Vol. 1 & 2), *Social Research on Children & Adolescents* (with B. Stanley), and *Sharing Social Science Data: Advantages and Challenges*.

Her current editorial activities include consulting editor of *Ethics & Behavior*; *Science and Engineering Ethics*, *Accountability in Research*, and *IRB: A Review of Human Subjects Research*; and frequent reviewer for: *American Psychologist*, *Psychological Reports*, and *Program Planning & Evaluation*. Her recent professional activities include consultant to production of the *Encyclopedia of Psychology*, and the *International Encyclopedia of Social & Behavioral Science*, service on the American Psychological Association/American Psychological Society Joint Task Force to Revise Ethical Principles in the Conduct of Research with Human Participants, and service as faculty member of Public Responsibility in Medicine & Research (PRIM&R). She currently serves on the NSF Human Subjects Subcommittee.

Some of her recent work concerns the dynamics of whistle-blowing, research in cyberspace, use of the internet for pedagogical purposes, and discovering how to make ethics committees work in private industry where the research is social and behavioral in nature, and creativity and knowledge are the major industrial products. She has served on IRBs for the State of California, St. Rose Hospital, California State University, Hayward, Zowie, Inc., and Interval Research Corporation. She developed and chaired the committees of the last two of these.

Paul Uhler

Paul F. Uhler is Director of International Scientific and Technical (S&T) Information Programs at the National Academies in Washington, D.C. He also directs the U.S. National Committee for CODATA. His current area of emphasis is on the management, law, and policy concerning S&T data and information in the digitally networked environment, at both the national and international levels. In 1997 he received the National Academy of Sciences' Special Achievement Award for his work in this area.

Uhler has been employed at the National Academies since 1985, first as a senior staff officer for the Space Studies Board, where he worked on solar system exploration and environmental remote sensing studies, and then as associate executive director of the Commission on Physical Sciences, Mathematics, and Applications. Before joining the National Academies, he worked in the general counsel's office and as a foreign affairs officer at the National Oceanic and Atmospheric Administration in the Department of Commerce. He has directed and published over 20 National Research Council (NRC) studies, and written or edited over 40 articles and books. He consults and speaks worldwide on information policy issues.

Uhler has a B.A in history from the University of Oregon, and a J.D. and M.A. degree in international relations from the University of San Diego.

Trilateral Seminar on Science, Society and the Internet

Appendix C – Agenda

Sunday December 14

- 2:30-3:30 p.m. Meeting of Session Chairs and Rapporteurs
Washington Room
- 4:30-6:00 p.m. Registration **Washington Room**
- 6:30 p.m. Reception and working dinner hosted by NSF
Chair: J. Thomas Ratchford, George Mason University
Invited Presentation by Judge Pauline Newman, US Court of Appeals for the Federal Circuit:
Societal Aspects of Information Technology
Garden level Dining room at East-West Center

Monday December 15

- 7:30-8:30 a.m. Continental breakfast **Outside Pacific Room**
- 8:45-9:30 a.m. Opening Session: **Pacific Room**
Chair: Fan Chunliang, Chinese Academy of Sciences
Keynote address, Tsuneo Nakahara,
Sumitomo Electric Industries, Ltd.
- 9:30-10:40 a.m. Plenary Session I: **Pacific Room**
SCIENTIFIC COLLABORATION VIA THE INTERNET
Session Chair: Wesley Shrum, Louisiana State University
Rapporteur: Alex DeAngelis, National Science Foundation

International Scientific Cooperation and the Internet in China, Fan Chunliang, Chinese Academy of Sciences
Activating a Scientific Collaboration Reflecting Cultured and Social Originality, Masao Sakauchi, National Institute of Informatics, Tokyo
- 10:40-11:00 a.m. Coffee Break
- 11:00-12:30 pm Plenary Session I, continued
International Collaborative Science on the Net
Gary Olson, University of Michigan

Remarks: Shinjii Shimojo, Osaka University
Open Discussion
- 12:30-2:00 p.m. Lunch **Garden level Dining room**

- 2:20-3:30 p.m. Informal Sessions I: ***Kamehameha / Washington Room***
Discussion Leaders: IA-William Blanpied, George Mason University, and IB-Barry Bozeman, Georgia Institute of Technology
- 3:30-4:15 p.m. Plenary Session II: ***Pacific Room***
ACCESS AND FAIR USE ISSUES
 Session Chair: Li Xiaoming, Peking University
 Rapporteur: Wang Zhiqiang, China Meteorological Admin.
- Development of Broader Coverage of Broadband Internet Infrastructure for Higher Education and Leading-edge R&D Activities*
 Suguru Yamaguchi, Nara Institute of Science and Technology
- 4:15-4:35 p.m. Coffee Break
- 4:35-6:15 p.m. Plenary Session II, continued
Creating a Global Research Commons for Scientific Data
 Paul Uhlir, The National Academies
Some Characteristics of Web Data and their Reflection to Our Society: an Empirical Approach, Li Xiaoming, Peking University
- Remarks:* Geoffrey Bowker, University of California, San Diego
Open Discussion
- 7:30 p.m. Working Dinner
 Chair: Keisuke Taira, Japan Society for the Promotion of Science
 Invited Presentation by Dr. Wang Zhiqiang, China Meteorological Association
Ohana Room at East-West Center

Tuesday December 16

- 7:30-8:15 a.m. Continental Breakfast ***Outside Pacific Room***
- 8:30-9:40 a.m. Informal Sessions II: ***Kamehameha / Washington Room***
Discussion Leaders: IIA-Luo Junzhou, Southeast University, and IIB-Sun Zhaobo, Nanjing Institute of Meteorological Science

- 9:50-11:00 a.m. Plenary Session III: ***Pacific Room***
**SOCIETAL ASPECTS OF INFORMATION AND COMMUNICATION
TECHNOLOGY (ICT)**
Session Chair: Toshihiko Hayashi, Stanford Japan Research
Center
Rapporteur: Masashi Ueda, Kansai University
- Teaching Ethics of Engineering and Science via the Internet,*
Joan Sieber, Calif. State University at Hayward
Internet Association in China: an Ethical Approach,
Liu Gang, Chinese Academy of Social Sciences
- 11:00-11:20 a.m. Coffee Break
- 11:30-1:00 p.m. Plenary Session III, continued
Sense of Place and the Information Society, Hisako Koura,
Osaka University
- Remarks:* Yang De-Li, Dalian University of Technology
Open Discussion
- 1:00-2:20 p.m. Lunch ***Garden level Dining room***
- 2:30-3:40 p.m. Informal Sessions III: ***Kamehameha / Washington Room***
Discussion Leaders: IIIA-Hitoshi Okada, National Institute of
Informatics, and IIIB- Shiro Uesugi, Matsuyama University
- 3:50-4:00 p.m. Coffee Break
- 4:00-5:15 p.m. Final Plenary Session: ***Pacific Room***
Chair: J. Thomas Ratchford, George Mason University
- 10 minute summaries by three session chairs or rapporteurs*
Open discussion: next steps
- 5:30 p.m. Adjournment
- 7:30 p.m. Working dinners, by individual arrangement