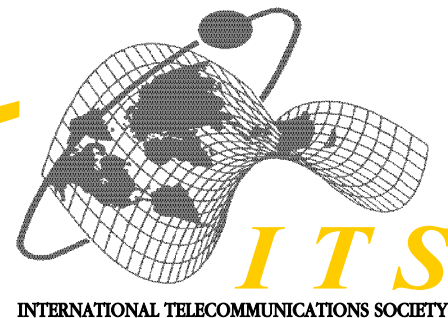


INTERCONNECT



Issue 1, Volume 1 February, 1999
INTERCONNECT

INSIDE THIS ISSUE:

Connections	2
ITS to Develop Photo Library	2
The Leading Edge	2
Executive Watch	3
Technical Story	3
Member Profile - Almarin Phillips	3
Upcoming Events	4

SPECIAL POINTS OF INTEREST:

- ITS launches new journal
- Committee members listed
- Don Romaniuk wants your photos
- Paper Feature by M.Ishaq Nadir and Bababi Nandi

ITS Launches New Publication

Camford Publishing Ltd., of Cambridge, England, with the support of the International Telecommunications Society (ITS), is launching a new international and interdisciplinary journal. The journal, called **info**, will focus on policy, regulation and strategy for the telecommunications, information and media industries.

info, launched in February and published six times a year, aims to provide a serious and broad forum for



debate of information-age issues. The editor, **Colin Blackman** (former editor of Telecommunications Policy), believes the journal will help guide the policy and business decisions that are shaping the information economy and society of the 21st century.

ITS is pleased to announce that its members will receive the journal as part of their membership. Further details about **info** may be found at:

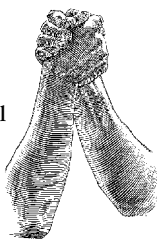
<http://www.camfordpublishing.com>.

ITS '98 Success!

The 12th Biennial Conference of the International Telecommunications Society, held in Stockholm, June 21-24, 1998 and organized by the Center for Information and Communication Research (CIC) at Stockholm School of Economics, was probably the most successful ITS conference ever.

Attendance topped 500 participants from all corners of the globe. The call for papers attracted a record 400 abstracts, resulting in a conference program rich with highly relevant papers.

Plenary sessions featured high-level



officials from industry and government, as well as world renowned speakers from academia and the consulting field.

A particular feature of ITS '98 was the launch of an interactive web site. All papers presented were available on the web site well in advance of the conference. Important information for the event was available here as well, including sites for registrations and abstract submissions. Since the conference, the web site has been extensively used by people from all over the world. Half a million web site hits have been counted since July 1998.

Some memorable social events included

a banquet held at City Hall, where the Nobel Laureate feast is held, and a banquet on boats that took guests to the beautiful Stockholm archipelago.

The overall success has been attributed to a judicious and dedicated team at CIC, led by the Conference Chair, Professor Bertil Thorngren, Director of CIC.

As a result of the high number and quality of papers presented, the conference has generated six co-ordinated publication projects (books, special issues in refereed journals) and a number of single publications. More details will be available in the next issue of **Interconnect**.

Message from the Chair



Thank you for making the last ITS Biennial in Stockholm so successful. Worldwide attendance was strong. The themes and sessions were organized with competence and friendliness by our perfect Swedish hosts...first and foremost by Bertil Thorngren, who was awarded the ITS Nobel Prize for patience.

The two ITS Board of Directors meetings held in June were the best attended that I recall in over 10 years. Therefore, decision making was representative of a wide constituency of telecommunications professionals. Our Treasurer, Lee Schmidt, presented the ITS budget plan. The organization is on a sound footing thanks to renewed

commitment of individuals and the backing of their organizations.

We have launched the planning effort for ITS 2000 in Buenos Aires, and we have endorsed Fernando Borio, of Telefonica de Argentina, to propose a theme and conference agenda. We are still looking to regroup ITS once or twice in 1999 before the Buenos Aires meeting. If you are involved with an academic conference which might benefit from ITS involvement, please contact someone on the Conference Committee. I look forward to seeing you, and I look forward to seeing ITS grow into the next millennium.

Loretta Anania

Connections



ITS BOARD STANDING COMMITTEES

The following are the existing Board Committees, their respective Chairs and committee members. Readers wishing more information are encouraged to contact **Interconnect**. We will be pleased to forward you the names and addresses of any ITS member.

Strategic Planning Committee: Noemy Watchel-David Cracknell (Co-Chairs), Tom Spacek, Hugh Collins, Gerard Pogorel, Bertil Thorngren, Karl-Heinz Neumann, Ferenc Kiss.

Conference & Seminars Committee: Koichiro Hayashi (Chair), Alain de Fontenay, Fernando Gallardo, Don Lambertson, Juergen Mueller, Erik Bohlin, Lorenzo Pupillo.

Publications Committee: Erik Bohlin (Chair), Rudolphe Baronnet, David Cracknell, Nicholas Curien, Glen Woroch, Cristiano Antonelli, Stanford Levin, Don Lambertson

Membership Committee: Almarin Phillips (Chair), Dan Furman, Don Romaniuk, Lorenzo Pupillo.

Nominations Committee: David Allen-Robert Olley (Co-Chairs), Jim Alleman, Walter Richter, Susan Simon.

Finance Committee: Leland Schmidt (Chair), Hans Levenbach, Hidenori Fuke.

Special Marketing & Promotions Committee: Don Romaniuk (Chair), Juergan Mueller, Tom Spacek, Noemy Wachtel.

ITS To Develop Photo Library



Don Romaniuk, Special Marketing & Promotions Committee Chair, has announced the creation of the ITS Photo Library, to be housed at the **Interconnect** Offices in Edmonton, Alberta.

The photo library will essentially serve two functions. The first will be to enhance the personal and professional profiles of ITS members who **Interconnect** will feature on a

regular basis. Romaniuk has encouraged all ITS members to submit a black and white head & shoulders photograph of themselves. "One of the advantages of ITS membership will be the exposure that members and their work receive," he said. "People want to get to know their contemporaries and fellow professionals."

Along with their photos, members are invited to forward a copy of their curriculum vitae and updates on interesting projects with which they are involved.

The second aspect of the photo library is of past conferences and seminars. ITS' success was built over many years. Many memories, partnerships and friendships have been made. They are an integral part of ITS and should not be forgotten.



The Leading Edge



Each month Interconnect features an Executive Summary of what it deems to be superior literary contributions to current technical, regulatory and social issues.

COMMUNICATIONS
INFRASTRUCTURE AND
ECONOMIC GROWTH IN THE
CONTEXT OF THE U.S.
ECONOMY

Authors:

M. Ishaq Nadiri, *New York University, New York, U.S.A.*

Banani Nandi, *AT & T Laboratories, New Jersey, U.S.A.*

Professor Nadiri has a long-standing record of being one of the foremost econometricians in telecommunications productivity.

Dr. Nandi has worked in similar tasks for several years in a number of positions.

Assessment:

This paper is important because it shows productivity and output growth linkages between investments in communications infrastructure and aggregate performance of the economy at large in the United States. It provides some hard and credible evidence to common beliefs - that the diffusion of information and communications technologies will promote growth in advanced economies. Specifically, the paper suggests there is a strong positive relationship between the communications infrastructure and the growth of output and productivity at the disaggregated industry level and the aggregate economy level, capturing the positive externalities effect (increasing returns) of communication infrastructure.

To download the paper, visit the <http://its98.org> web site.

Member Profile



ALMARIN PHILLIPS

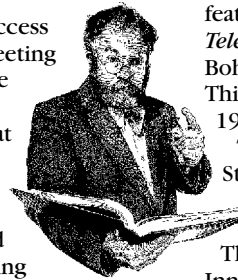
Dr. Almarin Phillips was elected to the ITS Board in 1990 and is now Chair of the ITS Executive Committee. Al is Emeritus Professor of Public Policy, Economics and Law, University of Pennsylvania.

Al received his B.S. and M.A. degrees from Pennsylvania and his Ph.D. from Harvard. He has taught at many universities other than Penn, including Harvard, Virginia, Hawaii, Warwick (England), the London Business School (England), Ohio State, McGill (Canada), Cal Tech, Northwestern, Arizona State and INSEAD (France). He served in several administrative capacities at Penn, among them Chair of the Department of Economics, Associate Dean of Wharton School, Dean of the School of Public and Urban Policy and Chair of the Faculty Senate.

Al has specialized in Industrial Organization, Regulation and the Economics of Technological Change. He is the author or co-author of five books, the editor of three others and has written more than 100 articles, notes and comments for professional journals. Al has served in several capacities with government agencies and has acted as a consultant to many firms on antitrust and regulatory matters. The latter include AT & T, Bell Canada, Alascom, GTE, Deutsche Telekom and the post-divestiture Bell Holding Companies. Al continues to be very active as a consultant.

ITS Literacy Activities Abound

A strong measure of success for the 12th biannual ITS meeting in Stockholm, last June, is the number of refereed publications with papers that were presented at the conference. These publications include an official conference book and special issues of journals being coordinated by the ITS Publications Committee.



Beyond Convergence is a collection of papers presented in Stockholm. The volume is being edited by Erik Bohlin, Katerina Brodin, Anders Lundgren and Bertil Thorngren and will be published in 1999 by Elsevier Publications.

Izumi Aizu, Erik Bohlin and Hajime Onika are editing a special issue of *Telecommunications Policy* which will appear in the spring of 1999. The theme of this issue will be "restructuring Asian Telecommunications."

Papers focusing on the political economy of telecommunications will be

featured in a special issue of *Telecommunications Policy* edited by Erik Bohlin, Antonio Leite and Stanford Levin. This will be published in the summer of 1999.

The summer of 2000 will see Stockholm papers included in the special issue of *Economics Innovation and New Technology*.

The focus of this special issue will be Innovation in Telecommunications and is to be edited by Cristiano Antonelli, Erik Bohlin, Eric Brousseau and Staffan Hulten.

Antonio Leite and Stanford Levin are editing a group of more theoretical papers from Stockholm for an industrial organization journal. A special issue on telecommunications in Latin America is being coordinated by Fernando Hector Beltran. In addition, papers from Stockholm have already been published in the 1998 fall issue of *Communications and Strategies*. Papers will be published in *Information Economics and Policy* and in **info**.

Corporate Membership Alive and Well

A strong measure of strength is our corporate membership base. Corporate support is a confirmation of our real and definable value. It is an indication of credibility.

ITS is rich in intellectual, technical, academic, regulatory and policy resources. Its influence is global and now attracts the interest of other like organizations.

Corporate members of ITS include: GTE (USA), TELIA (Sweden), BRITISH TELECOM (UK), TELECOM ITALIA (Italy), BELLCORE (USA), FRANCE TELECOM (France), TELUS (Canada), TELESPIHERE (UK), NTT (Japan),

O-TEL-O (Germany) and TELEFONICA DE ARGENTINA (Argentina).



Of the corporate sponsors, all are classified as "Global" with the exception of TELESPIHERE, which is a "Society" member.

Presently, an ITS membership falls into one of several categories: Global, International, Society, Individual and Student.

Executive Watch

Executive Watch highlights matters of interest to ITS members resulting from Board and Executive activities. It is not intended to be a summary of minutes from meetings or of all decisions which may have been made. Such information is available through the official minutes.

At the last ITS Board Meeting held in Stockholm on June 20, 1998, **Loretta Anania** reported that the organization is in a stronger financial position. She also stated that ITS is seeking broader participation from more geographic areas.



Leland Schmidt filed the 1997 taxes for ITS and **Al Phillips** reported success with respect to corporate memberships.

ITS welcomes **Hidenori Fuke** as NTT representative, **Stanford Levin** from Southern Illinois University at Edwardsville and **Fernando Borio**, V.P. Argentina Telecommunications Law

Association as new Board members.

Following a presentation by **Fernando Borio**, which included a support letter from the Dean of the Engineering Department at the University of Buenos Aires, the Board approved a motion that Buenos Aires be the site for the June 2000 biennial conference.

Upcoming Events

**ITS Regional Conference,
September 2-4, 1999, Turino, Italy
(in association with the 26th EARIE
Conference, September 4-7, 1999)**

ITS is soliciting research papers in the following areas:

Regulation

- Regulation at the National and EU Level: Which Division of Labor?
- Political Economy of Telecoms Regulation
- Effects of Regulation on Innovation and Productivity
- Economic Approaches to Spectrum Management
- Antitrust Tools versus Sector Specific Regulation
- Universal Service Obligations: What are they?
- Open Network Architecture: Pricing and Other Access Issues
- Standards and Intellectual Property Rights
- Competition in Local Markets: CATV, Narrow Band and Cellular Services

Industrial Policy Issues

- Privatization of Existing Carriers or Restructuring through Mergers and Demergers
- Business Strategies / International Alliances in Converging or Colliding Markets
- Assessing the Effects of Liberalization thus far
- Trade and Regulation of International Telecommunications: The Role of the WTO and ITU
- Competition and Privatization of International Facilities (Intelsat, Inmarsat)

Role of Telecommunications Infrastructure

- Impact of Infrastructure on Regional and General Economic Developments
- Role of FDI / Foreign Operators and Local Governments in Transition Countries (Country Studies / Case Studies)
- Information Infrastructure - Implications for "Have" and "Have-Not" Nations
- Measuring Technical Progress and Productivity in Telecom Services: productivity, quality etc.

Changes in the Structure of the Telecommunications Industry

- Globalization of Telecom Service Providers, International Alliances and their Effects on Competition
- Market Cooperation and Co-existence of

- Different Telecom Services
 - Costs and Benefits of Vertical Separation: Lessons From the Recent US Turnaround
- ### Telecommunication Services
- Opportunities for Network Based Services, Substitution Effects of Upcoming Services/Products
 - Methodologies for Forecasting Telecommunications Product / Service Developments
 - Usage Patterns of Services / Monitoring Product and Service Developments
 - Telecommunications and Mass Media Market
 - The Internet: A New Paradigm for the Telecom Market (convergence, pricing, internet and consequences)
 - Corporate and Private Networks
 - Mobile Telecom Services (GSM, PCS/N and CT2)

Convergence among Telecommunications, Broadcasting and Computing

- Strategies in the Multimedia Business: horizontal and vertical integration
- Convergence in the Information Highway to the Home
- Globalization of Mass Media Markets
- Video on Demand

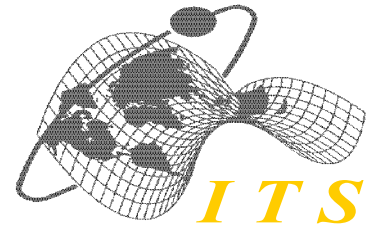
Other Themes

- Empirical I/O and Telecommunications
 - The Effect of Telecommunication Usage on Industry Organizations (across firms and within)
 - Social and Employment Impact of Telecom Applications
- Guidelines for the submission of papers (in English) should be based on current research. Submissions must be received no later than March 31, 1999. The referee process will continue through May 31st. All authors of accepted papers are required to register for the conference by July 31, 1999.

Papers must meet the following requirements: Text in Microsoft Word, tables/graphics in Microsoft Excel. Submissions should consist of 3 copies of both a one-page abstract (250 words), including the paper heading, and the paper of no more than 25 pages (typewritten, double-spaced). We require both a hardcopy and floppy disc.

Please address all contributions to:
Juergen Mueller, FHW Berlin, Badensche StraÙe 50-51, 10825 Germany
Tel. +49 30 85789-145, Fax. +49 30 85789-199; email: jmueller@fhw-berlin.de

Hogendorn from the Wharton School of Business, University of Pennsylvania, ultimately prevailed as the winner. The title of his paper was "Market Structure and Broadband Networks - The Feasibility of Competition". To take a look at the paper, check out the web site: <http://www.its98.org/>



ITS EXECUTIVE COMMITTEE

Loretta Anania

lan@postman.dg13.ccc.be

Erik Bohlin

erik.bohlin@jrc.es

David Cracknell

David.Cracknell@bt.com

Koichiro Hayashi

hayashi@glocom.ac.jp

Almarin Phillips

phillipa@wharton.upenn.edu

Leland Schmidt

leland.schmidt@telops.gte.com

Susan Simon

Ssimonesq@aol.com

Interconnect

5308 - 103A Ave., Edmonton, Alberta

Canada, T6A 0W6

Tel (780) 466-7227

Fax (780) 493-2134

email: cartel@planet.eon.net

Editorial Board

Don Romaniuk (*Chair*)

Pete Desrochers

Irene Bonifacio

Stanford Levin

Erik Bohlin

Forum

Dear Interconnect,

*On behalf of the Governors and Executive Committee of the International Council for Computer Communication (ICCC), I extend our congratulations to ITS on the launching of its new journal, **info** and your accompanying newsletter, **Interconnect**.*

ICCC has had the pleasure of cooperating with ITS in putting together the highly successful Global Networking '97 conference in Calgary. We found ITS members to be talented, cooperative and dedicated. We at ICCC would welcome the opportunity of working together again in the future. In the meantime, please accept ICCC's best wishes.

*Yours truly,
Pramode Verma
President*

*Forum letters should be addressed to **Interconnect** and sent to Pete Desrochers. email: cartel@planet.eon.net*

Nostalgia

Keeping with ITS traditions, a student award for best paper was recognized at ITS '98. Competition was close, and the jury had narrowed the choice to six papers. Christiaan

