行政院及所屬各機關出國報告

（出國類別：其它－國際會議）

出席「國際網際網路年會 INET' 2002 會議」報告

服務機關　：教育部（電算中心）

出國人職稱：組長

姓名：莊育秀等

出國地點　：美國華盛頓

出國期間　：91 年 6 月 16 日 至 23 日

報告日期　：91 年 9 月 18 日

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主辦機關：

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內容摘要：

ISOC（Internet Society）所舉辦的國際性網際網路年度會議（INET），由於網際網路的發展越來越受各個國家及業界重視，故會議的主題已不在侷限於網路網路的技術層面，更擴展到所有網際網路的應用、影響及管理等層面；各國網路工作者及網路研發人員每年都會藉此機會共同研討網路管理、應用及未來發展等重要之課題。主題之一爲 IPv6 關於 Mobile IP Networks 及 Wireless Security，各個國家的產、官、學界莫不在這兩個主題上盡力地推動與發展。本次即在擷取其他國家這方面的經驗、發展及推動過程；並藉此機會與其他國家交流有關網路的管理、發展及推動經驗，另網路與法律之間的關係，網路已讓各國的法律面臨跨國性及智慧財產權的問題，藉此機會參考及擷取他國的經驗，以健全我國網路的管理及未來的發展。

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出席「國際網際網路 INET 2002 年會」報告

一、會議資訊

會議名稱：國際網際網路 INET 2002 年會

時間：91 年 6 月 18 日至 91 年 6 月 21 日

地點：美國華盛頓

參加國家：各國網際網路網路相關人士

背景資料

此次爲 INET 第十二次會議，仍由 ISOC（Internet Society）主辦，於六月十八日到二十一日在美國華盛頓特區的 Crystal Gateway Marriott 舉行。今年由於大會地區爲美國，受去年九一一事件影響，大會宣布舉行之日延緩，故今年與會國家與人數，並不如往年熱絡，本年度與會人數僅八百多人，爲往年參與人數七成左右。

INET 2002 是由 ISOC（Internet Society）所舉辦的年度國際網路研討會，現仍爲目前網際網路研討會中最具歷史且最具規模的會議。主要目的爲讓各國參與人員討論觀摩及學習各國網際網路之經驗及技術之外，並可讓網際網路上的其他組織及學術單位建立交流與合作關係，故藉以參與此會議可讓我國能在網際網路中佔有一席重要的地位。

此次大會重點仍與去年相同，在討論 IPV6 實際應用的技術發展及相關網際網路相關政策及公約性問題，還有未來 IPV6 與 Mobile IP Networks 及 Wireless Security 結合後的應用及發展問題。相關議程資訊詳見 http://www.inet2002.org/inet-tutorials.html

二、會議目的

ISOC（Internet Society）所舉辦的國際性網際網路年度會議（INET），爲世界規模最大之網路年會，歷年來輪流在世界各國舉辦，近年來由於網際網路的發展越來越受到各個國家及業界重視，近來的參與人數都有上千人以上，會議的主題集討論的議題也越來越廣泛，已不在侷限於網路網路的技術層

面，更擴展到所有網際網路的應用、影響及管理等層面；各國網路工作者及網路研發人員每年都會藉此機會共同研討網路管理、應用及未來發展等重要之課題。今年的主題爲 IPv6 關於 Mobile IP Networks 及 Wireless Security，各個國家的產、官、學界莫不在這兩個主題上盡力地推動與發展。身爲網際網路的成員之一，我們此次與會的目的就在於擷取其他國家在 IPv6 關於 Mobile IP Networks 及 Wireless Security 的經驗、發展及推動過程，讓國內的學術網路在未來的發展中進步能更快速；並藉此機會與其他國家交流有關網路的管理、發展及推動經驗、尤其是網路與法律之間的關係，網路已讓各國的法律面臨跨國性及智慧財產權的問題，藉此機會參考及擷取他國的經驗，以健全我國網路的管理及未來的發展。

三、會議議程及內容

（詳細資料請參考附件一）

INET 2002 Tutorials

07:30-19:00 Registration
08:00-09:00 Continental Breakfast
09:00-17:00 Full Day Tutorials
09:00-12:30 Morning Tutorials
10:30-11:00 Morning Coffee Break
12:30-13:30 Lunch
13:30-17:00 Afternoon Tutorials
15:00-15:30 Afternoon Coffee Break

INET 2002 Program

Wednesday, 19 June 2002

07:30-18:00 Registration
07:30-08:30 Continental Breakfast

08:30-09:00	Welcoming Remarks
09:00-10:30	Critical Points in the Development of the Internet
10:00-17:30	Exhibit
10:30-17:00	Poster Display
10:30-11:00	Morning Coffee Break
11:00-12:30	Ideas and Intellectual Property in the Networked World
12:30-13:30	Lunch Break
13:30-15:00	Track Sessions
	E-mail in the 21st Century: The Good, The Bad, and The Ugly (T-1)
15:00-15:30	Afternoon Coffee Break
15:30-17:00	Semi-Plenary Sessions
	The Collaborative Internet: Can the Commons be Saved? (SP-4)
17:00-19:00	Welcome Reception

Thursday, 20 June 2002

07:30-17:00	Registration
07:30-08:30	Continental Breakfast
08:45-09:15	A Conversation with Arthur C. Clarke
09:15-10:30	Is the Internet Revolution Over?
10:00-19:00	Exhibit
10:30-17:00	Poster Display
10:30-11:00	Morning Coffee Break
11:00-12:30	Track Sessions
	Mobile Internet Applications (T-2)
12:30-13:30	Lunch Break
13:30-15:00	Track Sessions
	IETF: Convergence: The Telephone Number Mapping (ENUM) (T-I1)
15:00-15:45	Afternoon Coffee Break
15:30-17:00	Track Sessions

	Accessibility (G-9)
17:00-18:30	Semi-Plenary Sessions
	Coordination or Control: The Institutionalization of DNS (SP-2)
19:30-21:00	Birds-of-a-Feather Sessions
	University Internet Studies Programs

Friday, 21 June 2002

07:30-14:00	Registration
07:30-08:30	Continental Breakfast
08:30-09:30	Wiretapping the Internet
09:30-10:30	The Next Killer App
10:00-17:30	Exhibit
10:30-17:00	Poster Display
10:30-11:00	Morning Coffee Break
11:00-12:30	Track Sessions
	IETF: Mobile Ad-hoc Networks (MANET) routing (T-I3)
12:30-13:30	Lunch Break
13:30-15:00	Track Sessions
	Network Management (T-6)
15:00-15:30	Afternoon Coffee Break
15:30-17:00	Semi-Plenary Sessions
	Intellectual Property and the Internet (SP-1)
17:00-18:30	Who Speaks for the Internet User?
18:30-20:00	Birds-of-a-Feather Sessions
	The Next Generation of INET

四、會議心得

Internet 全球風行，在環環相連的網路世界裏，也許您不知道，現行網路上的門牌號碼（IP 位址）已不敷使用，從技術的角度來看，目前 IP 定址方式（IPv4，IP version4）亟需升級爲新一代的網路定址協定，即 IPv6（IP

version6），以滿足 Internet 的長遠發展，而 IPv6 也將成爲未來的必然發展趨勢。

IPv6 在現實生活中的商業應用已然變得實際可行並有其迫切性。我們相信許多既有的科技將會受益於 IPv6 而突破其現有的限制，這些諸如 Online Gaming, Home Networking 以及 Mobile IP 等各種新商業服務的產生將會是 IPv6 佈建與快速成長的最大動力。

IPv6 在國內之發展，最初是以學術研究單位和國家寬頻實驗網路(NBEN)爲主，除了加入全球實驗網路並積極研究與測試 GigaPOP IPv6 骨幹實驗外，HiNet 與 TANet 也於 2000 年後陸續正式取得商用 IPv6 位址進而提供相關服務。

我國推動國家資訊通信基礎建設之願景，係在加速寬頻網路建設、構建網網相連環境、建立網路安全機制、普及網路基礎教育、提昇技術研發層次、擴大國際合作，期能建立一良好之基礎環境平台，使我國邁入資訊化優質社會(e-Society)之目標，故推動新一代協定 IPv6 已成爲建設發展當務之急，爲實現國內 IPv6 網際網路環境，加速國內 IPv6 軟硬體研發、網路互連及測試、骨幹建設及推廣應用，期整合政府及民間之力共同進行 IPv6 推動計畫，俾使我國即早邁入 IPv6 資訊網路新紀元。

另在網際網路日益普及，各種透過網際網路提供的服務也是未來的主流通路，民眾經由網路與社會接觸的時間將越來越長，所以網路使用者的網路行爲與秩序管理，將成爲大家所需努力共同去規範與注意，如網路不當資訊的防範、網路使用行爲的導引、網路資源的合理運用、網路安全機制及技術的建立與提升、網路智慧財產及個人隱私的保障等，如此才能兼顧現今網路環境面臨的技術提升擴充與管理運用政策的平衡。

五、對未來國內網路發展及建議

近十年來由於網際網路的蓬勃發展，IP 位址的需求量愈來愈大，使得 IP 位址的發放愈趨嚴格，各項資料顯示全球 IP(v4)位址可能在 2005 至 2008 年間全部發完。國內上網人口已超過 700 萬，寬頻上網的用戶數亦快速成長，再加上日益流行的無線上網及未來 3G 的潛在用戶，在在都需要龐大的 IP 位址來支援。目前以日本、韓國及歐洲的發展最積極。日本政府宣佈將於 2005 完成日本網路 IPv6 化，且日本已有三家 ISP 於去年中(2001)正式提供 IPv6

商業服務。韓國政府亦規劃於 2005 至 2011 年間完成網路全面 IPv6 化的演進。我國行政院科技顧問會議已有顧問建議我國於 2003 年先進行 IPv6 使用於無線接取網路，而於 2005 年用於有線網路。目前行政院 NICI 已研擬成立 IPv6 推廣小組，而民間業已成立台灣 IPv6 Forum Taiwan，全力促進我國 IPv6 之發展。由於全球網際網路的蓬勃發展，用戶數、路由器及應用服務伺服器數量非常龐大，移轉工程無疑是一項浩大工程，移轉時程並無法以約定的日期爲基準日，進行全面的移轉。IETF 已訂定出 IPv4 至 IPv6 的相關轉移機制，供網路管理者搭配使用。移轉的方式則是採漸進方式，在不影響現有網路服務下，依據網路現況靈活運用轉移機制，採循序漸進方式完成 IPv4 至 IPv6 的移轉。台灣學術網路目前已有 IPv6 的研究計畫，唯此計畫進行速度略嫌緩慢，爲提升台灣學術界對於 IPv6 的應用及早投入相關機制的建立，將是今後確保台灣網際網路順利的移轉的重要關鍵。

IPv6 是網際網路的新一代協定標準，日、韓、美、中國大陸等皆已著力投入，歐盟也宣佈 IPv6 將取代 IPv4 爲未來發展平台，成爲通用的網際網路協定。全球佈署的態勢已明顯呈現，而台灣各種的資訊、家電、民生產業將因 IPv6 的興起而得到再生的機會，此時投入 IPv6 的推動與建置，已是刻不容緩。爲奠定台灣未來的競爭基礎，IPv6 的推廣服務、技術及應用的開發，應是產業界與政府機關間於國家資訊工業政策上重要的指標之一。

另在參與世界各網際網路的國際組織及國際會議活動上，國內各相關政府機關及民間團體應更積極參與，以有組織、有規劃的方式，並設定爭取參與國際網路組織運作的機會，以維持我國在網際網路上的地位，也才能持續與大陸、亞洲各國相競爭，並將我國資訊內容產業開拓國際市場。

附件一

18-21 June, 2002

Crystal Gateway Marriott

Arlington, VA

General Information: info@inet2002.org

Sponsorship Information: sponsors@inet2002.org

INET 2002 Tutorials

Full-Day

TF1: IP Version 6

TF2: Legal and Regulatory Issues: A Primer

Half-Day - AM

TA1: IP Telephony

TA2: Internet Security: Problems, Solutions and Trends

TA3: Cancelled

TA4: A Tour of XML Standards

TA5: Cancelled

TA6: Domain Names and ICANN

Half-Day - PM

TP1: Mobile IP Networks

TP2: Wireless Security: 802.11b and Beyond

TP3: Web Accessibility: Technology and Policy for an Inclusive Future

TP4: Internet Grid Computing: The New Application Utility

TP5: Internet Communities, Part 2: From E-Readiness to E-Reality

TP6: New Internet Standards from the IETF

07:30-19:00 **Registration**

08:00-09:00 **Continental Breakfast**

09:00-17:00 **Full Day Tutorials**

TF1: IP Version 6

Marc Blanchet, Viagénie

IPv6 is the new version of the IP protocol. It is designed to meet scaling requirements imposed by the explosive growth of the Internet and to meet the demand for greater functionality at the Internet layer, including strong security, mobility, and plug and play configuration. IPv6 is under deployment around the world, and commercial providers in the US, Europe and Asia are now providing IPv6 service to their customers. This full-day tutorial provides an in-depth exploration of the new IPv6 protocol, its architecture and extensible mechanisms, and strategies for moving from IPv4 to IPv6. The tutorial will conclude with a discussion of the present status of IPv6 deployment and industry trends.

Marc Blanchet has given numerous courses on IPv6, security and TCP/IP. He is an active member of the Internet Engineering Task Force (IETF), and has authored several Internet-drafts. He is currently co-chair of the internationalized domain names working group and co-chair of the IPv6 Exchange working group. Additionally, he is a co-founder of the IPv6 Forum and a member of the IPv6 Forum board. He is the author of the books "TCP/IP Simplifié" and "Migrating to IPv6".

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TF2: Legal and Regulatory Issues: A Primer

Jim Dempsey, Mike Godwin and John Morris, Center for Democracy and Technology

This day-long tutorial will provide an in-depth examination of four key sets of legal issues affecting the Internet: government surveillance and cybercrime, free expression, copyright, and consumer privacy. These detailed presentations will be framed by shorter contextual overviews of the regulatory framework within which the Internet exists. The session on government surveillance will cover, among other topics, search and seizure

law, with specific reference to searches of computers; real-time interception, as applied to both traditional telephony and data communications; the changes wrought by the USA PATRIOT Act in the wake of September 11; the debate over design standards and data retention; obligations of systems operators; and international developments, including the Council of Europe Cybercrime Treaty.

In terms of free expression, the tutorial will examine: the U.S. First Amendment and international human rights protection of free expression; the filtering debate; the French Yahoo! decision; ISP liability/immunity; and online defamation. Under copyright, the tutorial will provide a basic understanding of the principles of copyright law and their extension to the Internet, focusing on the WIPO treaty and recent cases and controversies (Napster, DeCSS, Sklyarov) as well as the Hollings legislation, which would require DRM technology to be built into all digital devices. The consumer privacy segment will examine fair information principles and their inclusion (or non-inclusion) in law and policy in the U.S., Europe, and other countries, including an analysis of pending privacy legislation in the U.S.

The tutorial will be pitched to non-lawyers, but will be scalable so that lawyers should learn something too. The presentations will focus largely on US law, but will also include significant reference to international developments including surveillance standards, international treaties on copyright, self-regulation and content controls in Europe, the European Union's Data Protection Directive, etc, as well as trans-border jurisdiction in cyberspace.

Jim Dempsey is deputy director of the Center for Democracy and Technology (CDT), where he works primarily on privacy and electronic surveillance issues and heads CDT's international project, the Global Internet Policy Initiative (GIPI). He testifies frequently before the U.S. Congress on Internet policy issues and speaks widely at seminars and conferences. He is the co-author of the book "Terrorism and the Constitution: Sacrificing Civil Liberties in the Name of National Security", as well as law journal articles on communications privacy, legal aspects of Internet security and online freedom of expression.

Mike Godwin, a well-known Internet activist and writer, is Policy Fellow at CDT. He has had extensive involvement with the legal and social issues affecting cyberspace and has served as the first staff counsel for the

Electronic Frontier Foundation, where among other activities he instructed criminal lawyers and law-enforcement personnel about computer civil-liberties issues. He is the author of "Cyber Rights: Defending Free Speech in the Digital Age", as well as numerous articles in the American Lawyer, Internet World, WIRED, HotWired, Time, Reason and other publications.

John Morris is the Director of CDT's Internet Standards, Technology and Policy Project. Prior to joining CDT, Mr. Morris was a partner in the law firm of Jenner & Block, where he litigated groundbreaking cases in Internet and First Amendment law, including ACLU v. Reno and American Library Association v. DOJ, in which the Supreme Court unanimously overturned the Communications Decency Act of 1996 and extended to speech on the Internet the highest level of constitutional protection. Prior to becoming a lawyer, Mr. Morris worked in the computer industry as a programmer and system designer.

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09:00-12:30 **Morning Tutorials**

TA1: IP Telephony

Igor Faynberg and Hui-Lan Lu, Bell Laboratories/Lucent Technologies

This tutorial will provide an in-depth overview of voice-over-IP technologies, architectures and standards and their applicability to today's networks. Topics covered will include user scenarios such as PC-to-PC and phone-to-PC connections, voice codecs, relevant transport protocols (UDP, RTP and RTCP), QoS protocols impacting voice performance (RSVP, DIFFSERV and MPLS), and signaling protocols (H.323, H.248, TRIP and SIP). Voice interworking with the PSTN and wireless networks will be covered, including a review of ENUM, the E.164 to IP domain name telephone number mapping standard, and discussion of its regulatory, technical, and political implications. In addition, the economics of IP telephony will be briefly discussed.

Igor Faynberg is Director, Standards and Technologies at Bell Laboratories/Lucent Technologies and adjunct professor of Computer and Information Science, Stevens Institute of Technologies. He is an author of two books, "Intelligent Network Standards, their Applications to Service" and

"Converged Networks and Services: Internetworking IP with PSTN", is active in the IETF and ITU-T, and is frequently invited to speak at major conferences and events related to his research area. He holds two US patents for inventions relevant to Intelligent Networks and Converged Services.

Hui-Lan Lu is Bell Labs Fellow and Consultant in Bell Laboratories /Lucent Technologies. A distinguished researcher, she is well known for her publications in the areas of Physics, Operations Research, Compiler Theory, and Telecommunications protocols. She is an author of the book on PSTN/Internet integration "Converged Networks and Services: Internetworking IP with PSTN". She also frequently teaches seminars on IP Telephony and Converged Services around the world, and holds two US patents for inventions relevant to service creation and multimedia.

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TA2: Internet Security - Problems, Solutions, and Trends

Sead Muftic, George Washington University

This tutorial will provide a comprehensive overview of problems, solutions and trends in the area of Internet security. The problems to be discussed range from common threats, such as illegal or incorrect messages, denial-of-service attacks, viruses, worms and Trojan horses, to very sophisticated threats organized as anonymous distributed system attacks. In addition, problems involving insiders and requirements for secure and reliable business transactions will be covered.

Several major technologies will be reviewed as potential solutions, ranging from standard technologies (firewalls, virtual private networks, SSL, virus protection and intrusion detection systems) to advanced network security architectures involving public key infrastructures, authentication and authorization schemes, and trusted third-party services, with special emphasis given to biometrics and smart cards. Finally, we will overview current organizational and legislative regulation of computer security, including public-key cryptography policies, national security, and authorizations of financial transactions.

Sead Muftic is professor of computer security at Stockholm University and Royal Institute of Technology in Sweden. He is currently also professor of

computer security and secure E-commerce, and Director of Research in the Cyberspace Policy Institute, at George Washington University in Washington, DC. He is the author of three books in the area of computer security and approximately 50 published papers. He coordinated the international research project "COST-11: Security Mechanisms for Computer Networks", sponsored by the Commission of the European Communities, holds three patents, and was the founder, Chairman and CTO of the security company Entegrity Corporation. He has been working in the area of computer security for over 25 years.

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TA4: A Tour of XML Standards

Liam Quin, W3C

Despite all the acronyms, a shared vision exists for XML technology. This vision is based on structured information, explicit representation of relationships, and the concept of the URI as a universal name. This tutorial will provide a broad overview of the XML-based standards coming from the World Wide Web Consortium (W3C). Base XML specifications such as XML 1.0, XML Schema, XML Query, XML Link, XPath and XPointer will be covered, as well as standards building on XML such as Digital Signatures, HTML, SVG, XSL, Web Services, RDF and the Semantic Web. The W3C processes, IPR and patent policy will also be discussed. Attendees should have basic familiarity with HTML and the World Wide Web.

Liam Quin is the W3C XML Activity Lead. He has been involved in the design and development of XML since its inception, and joined the W3C as XML Team Contact in August, 2001. Before joining W3C he worked for SoftQuad Inc., where he was technical lead for the HTML editor HoTMetaL Pro and the web-enabled SGML browser SoftQuad Panorama. He has spoken at SGML and XML conferences, and written and co-authored three books on XML.

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TA6: Domain Names and ICANN

Hans Klein, Georgia Tech

The problems associated with creating and controlling top-level domain names such as .com and .biz, and of providing domain names to companies

and individuals, have taken on increasing importance and controversy as the Internet has expanded. From a technical perspective, the Domain Name System (DNS) provides the implementation of the name-to-address translations required to make the Internet work. For policy and governance, the Internet Corporation for Assigned Names and Numbers (ICANN) was created in 1998 to deal with Internet names and addresses and to oversee the operation of the DNS.

After first providing a technical overview of DNS operation and technical issues, the tutorial will provide an overview and exploration of DNS policy and governance issues and mechanisms, including the evolution and present status of ICANN. The complex linkages between DNS technology and policy will be examined, including intellectual property, US government administrative law, and international sovereignty. Most importantly, the tutorial will review today□ issues, including: revisions to ICANN□ governance structure, ICANN□ relationships to national governments and ccTLD administrators, and the policy implications of different designs of the DNS root.

This session will be useful to anyone who is interested in domain name issues and operation but has not had the time to fully follow the issues. The tutorial will offer a rare overview that brings all the pieces together.

Hans Klein is an Assistant Professor of Public Policy at Georgia Tech□ School of Public Policy, and is Chair of Computer Professionals for Social Responsibility. He has written numerous research articles on ICANN and also publishes the Cyber-Federalist newsletter. He has a BS EECS from Princeton University and MS and PhD in Technology Policy from MIT.

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10:300-11:00 **Morning Coffee Break**

12:30-13:30 **Lunch**

13:30-17:00 **Afternoon Tutorials**

TP1: Mobile IP Networks

R 嵩 is Desmeules, Viag 幡 ie

As wireless networks proliferate within the Internet, new protocols are required to allow mobile IP nodes to maintain transparent end-to-end

operation..This tutorial is an introduction to the Mobile IP protocol standard defined by the IETF, which permits nodes using either IPv4 or IPv6 to seamlessly roam among different IP networks and media. The tutorial will cover the issues of mobility with IP, the design and architecture of the Mobile IP protocol, an example commercial Mobile IPv4 implementation, and an overview of Mobile IPv6.

R 嵩 is Desmeules is a network engineer with Viag 幡 ie in Canada. He specializes in IP and IPv6 protocols, and has developed and taught courses related to multimedia over IP. He has given tutorials and workshops on IPv6 and Mobile IP at Networld+Interop and IPv6 Forum conferences. Prior to joining Viag 幡 ie, he worked for Tele-university, the largest distance education university in Canada.

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TP2: Wireless Security: 802.11b and Beyond

Gary McGraw, Cigital

Wireless security is becoming increasingly important as wireless applications and systems become widely adopted. Numerous organizations have already installed or are busy installing wireless local area networks (WLANs). These networks, based on the IEEE 802.11b standard, are very easy to deploy and are inexpensive. However, the risks associated with the adoption of wireless networking are only now coming to light -- both active and passive attacks are possible, and have been heavily publicized. As was the case in the wired computing world, early wireless security is focused almost entirely on cryptography and secure transmission (leaning heavily on WTLS and WEP, for example). This approach is too limited to produce the end-to-end security necessary for critical wireless applications and systems now on the drawing board.

After discussing wireless risks in detail, this tutorial will concentrate on mitigating them. We will cover proper deployment of both existing and new WLAN installations based on current technology, and discuss auditing techniques. We will also discuss why mature software security practices and sound systems security engineering should be used when designing and building wireless applications. Finally we'll look to the future with a description of Enhanced Security Network (ESN), the next generation

wireless security architecture.

Gary McGraw is the Chief Technology Officer at Cigital and a noted authority on software security. He serves as the principal investigator on grants from Air Force Research Labs, DARPA, National Science Foundation, and NIST's Advanced Technology Program, and recently chaired the National Infosec Research Council's Malicious Code Infosec Science and Technology Study Group. He has co-authored the following books: "Java Security: Hostile Applets, Holes, & Antidotes", "Securing Java: Getting Down to Business with Mobile Code", "Software Fault Injection: Inoculating Programs Against Errors", and "Building Secure Software", and regularly contributes to popular trade publications and national press articles.

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TP3: Web Accessibility: Technology and Policy for an Inclusive Future

Judy Brewer and Wendy Chisholm, W3C

Web accessibility is emerging as a key issue in information technology and policy development around the world. In this tutorial, speakers from the World Wide Web Consortium (W3C) Web Accessibility Initiative (WAI) will provide an overview of the latest in guidelines, techniques, educational resources, and international policy context.

The tutorial will begin with a brief exploration of barriers that people with various disabilities encounter on the Web, and how those relate to similar user requirements for device-independent access, low-bandwidth connectivity, second language access, low literacy levels and more. We will explore the expansion of policies relating to Web and Internet accessibility from the perspectives of human rights, information technology procurement, and other regulatory processes, and discuss the benefits of standards harmonization for Web content and Web-related software. The session will demonstrate evaluation and repair of inaccessible Web sites, and leave you with educational and outreach resources for additional technical support and for promotion of Web accessibility in your country or organization. The speakers will address both your technical and policy related questions according to the interests of attendees.

Judy Brewer joined the World Wide Web Consortium (W3C) in September 1997 as Domain Leader for the Web Accessibility Initiative (WAI) and

Director of the WAI International Program Office. She coordinates five areas of work for W3C with regard to Web accessibility: ensuring that W3C technologies support accessibility; developing accessibility guidelines for Web content, user agents, authoring tools, and XML applications; developing tools for evaluation and repair of Web sites; conducting education and outreach on Web accessibility solutions; and monitoring research and development which may impact the future accessibility of the Web. She has a background in management, technical writing, education, applied linguistics, and disability advocacy.

Wendy Chisholm joined the W3C in October 1999 to coordinate the development of tools and create guidelines that will facilitate an accessible Web. Before joining the W3C, she was a human factors engineer at the Trace R & D Center at the University of Wisconsin researching the accessibility of evolving Web technologies and Java. She is co-editor of the W3C's Web Content Accessibility Guidelines 1.0, which provides instruction on how to make Web content accessible to all users. She has a background in Industrial Engineering, Computer Science, and Psychology.

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TP4: Internet Grid Computing: The New Application Utility

Kate Keahey, Argonne National Laboratory

Grid computing has emerged as an important new area, distinguished from conventional distributed computing by its focus on large-scale resource sharing, innovative applications, and, in some cases, high-performance orientation. The Globus Project is leading the definition of standard Grid protocols and APIs, in areas such as security, resource management, data management, and information discovery. The open source Globus Toolkit, which provides a reference implementation of these Grid protocols and APIs, has been adopted by most of the major Grid projects world-wide, providing a common, robust infrastructure for building applications that exploit distributed, heterogeneous resources.

This tutorial is a practical introduction to Grid computing, the Globus Toolkit, and the Open Grid Services Architecture. The tutorial begins with an introduction to the Grid problem, which we define as flexible, secure, coordinated resource sharing among dynamic collections of individuals,

institutions, and resources. Next, we present an extensible and open Grid architecture, in which protocols, services, application programming interfaces, and software development kits are categorized according to their roles in enabling resource sharing. We then introduce the Globus Toolkit, and briefly describe its core components. Finally, we present how the Globus Toolkit is moving forward with the Open Grid Services Architecture, building on concepts and technologies from the Grid and Web services communities.

Kate Keahey is an Assistant Computer Scientist in the Distributed Systems Laboratory in the Mathematics and Computer Science Division at Argonne National Laboratory. She received a Ph.D. in Computer Science from Indiana University where she worked on parallel extensions to CORBA. Her research interests focus on high-performance, distributed, Grid computing and component architectures. She is an active member of the Common Component Architecture (CCA) Forum.

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TP5: Internet Communities, Part 2: From E-Readiness to E-Reality

Roslyn Docktor, McConnell International and Steve Wendel, bridges.org.

E-readiness -- the ability for a country or community to benefit from information technology -- is portrayed as the best way to increase market competitiveness and improve the lives of citizens. Going beyond the news clippings, how does a country actually improve e-readiness? What is meant by national and community-level e-readiness assessments, and what should they include? What lessons have been learned internationally in e-readiness assessment and improvement, and what type of assessment is best for your country? What concrete steps are needed to find and implement locally relevant, sustainable methods of improving e-readiness? What is needed to inform, engage, and train the key actors? What are the potential roles of government, businesses, academia, and civil society? How do you know if the process has been successful?

This session focuses primarily on policy changes and major initiatives by government, private sector, and civic organizations. Attendees will gain a firm understanding of the field, knowledge of what assessments have been conducted in their region, and knowledge of how to plan and improve e-readiness in their countries and communities. In addition, participants will

be encouraged to begin the e-readiness improvement process by finding out about assessments in their country (using information supplied during the session), by learning about and choosing assessment methods that fit their goals, and by producing a framework for action to assess and improve their e-readiness.

Roslyn Docktor is the Vice President and co-founder of McConnell International, a global technology policy and management consulting firm based in Washington, DC. Her international experience strengthening local and global networks across governments, businesses, and communities spans nearly all continents. As the deputy director for the United Nations-supported International Y2K Cooperation Center, she established an effective Internet-connected network of over 170 national Y2K leaders. As the associate director for communications for the Council of Opportunity in Education, Docktor developed an interactive framework for regional coordination that significantly increased revenues. In addition, she helped structure a program to create community-based technology centers increasing low-income students' access to technology.

Steve Wendel, bridges.org project manager, is currently leading bridges.org's assessment of Cape Town's Digital Divide. This assessment is one of the first of its kind to provide a comprehensive look at both the experiences and needs of average citizens for information technology and the underlying policy and economic environments that shape e-readiness. Bridges.org is an international organization helping to span the digital divide through extensive research into information technology best practices and targeted policy interventions. He is the primary author of a number of key bridges.org documents on e-readiness and the digital divide.

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TP6: New Internet Standards from the IETF

Scott Bradner, Harvard University

The Internet Engineering Task Force (IETF) continues to be a primary force in the successful operation and growth of the Internet, reflecting the ongoing efforts of a worldwide team from industry, governments and academia. This tutorial provides an overview of important recent and emerging standards-track work in the IETF. It will cover activities in each of the seven

IETF technical areas: Applications, Internet, Operations and Management, Routing, Security, Sub-IP and Transport. Work in other standards organizations such as the ITU-T, ETSI, 3GPP, 3GPP2 and the ATM Forum will be included where it is related to work in the IETF.

Scott Bradner is a senior technical consultant at the Harvard Office of the Provost. He is the codirector of the Transport Area in the IETF, is a member of the Internet Engineering Steering Committee (IESG), and serves as the Vice President for Standards for the Internet Society. He was also codirector of the IETF's IPv6 effort and is coeditor of the book "IPng: Internet Protocol Next Generation". He is a frequent speaker at technical conferences and a weekly columnist for Network World. He has been involved in the design, operation and use of data networks since the early days of the ARPANET.

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15:00-15:30 **Afternoon Coffee Break**

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INET 2002 Program

Wednesday, 19 June 2002	
07:30-18:00	**Registration**
07:30-08:30	**Continental Breakfast**
08:30-09:00	**Welcoming Remarks** The Internet is at a crossroads. In the next year or two, critical choices will be made about Internet standards and Internet policy that will shape the Internet for years for come. INET 2002 will explore these choices, who is making them, and how the Internet community can work together to ensure that cyberspace continues to be, a productive, exciting, diverse, and innovative place to be. Speakers: **Lynn St. Amour**, President of the Internet Society, USA **Michael R. Nelson**, IBM and Co-Chairman, INET 2002 Conference Committee, USA **Francois Fluckiger**, CERN, Switzerland, Co-Chairman, INET 2002 Program Committee **Hans Klein**, Georgia Institute of Technology, Co-Chairman, INET 2002 Program Committee, USA
09:00-10:30	**Critical Points in the Development of the Internet** A recent report from the U.S. National Research Council, "The Internet's Coming of Age," describes how in many countries the

Internet is becoming a mass medium and critical part of the infrastructure needed for business, government, and education. Yet, the Internet is still evolving. In this panel, Eric Schmidt, who chaired the committee that wrote the NRC report, will join Robert Kahn and Vint Cerf, two of the "fathers of the Internet," to discuss the development of the Internet, past, present, and future.
Speakers:
Vinton Cerf, WorldCom, USA
Robert Kahn, Corporation for National Research Initiatives, USA
Eric Schmidt, CEO, Google, USA
Moderator: **William Wulf**, President, National Academy of Engineering, USA

10:00-17:30 **Exhibit**

10:30-17:00 **Poster Display**

10:30-11:00 **Morning Coffee Break**

11:00 -12:30 **Ideas and Intellectual Property in the Networked World**

Few Internet issues are as controversial as intellectual property, and policies and technologies designed to protect copyright on the Internet could dramatically shape the architecture of the Internet and either stimulate or hinder the development of the networked economy.
Speakers:
Larry Lessig, Stanford University and author of "The Future of Ideas", USA
Moderator: **Louise Kehoe**, Financial Times, USA

12:30-13:30 **Lunch Break**

13:30-15:00 **Track Sessions**

E-mail in the 21st Century: The Good, The Bad, and The Ugly (T-1)

In this session we present a critical look at email from three different perspectives: the good, the bad, and the ugly. Attendees of this session will gain a deeper understanding how and why email works, what it means when it does not work, and

why we all need to share the responsibility of protecting it from abuse. This is not a technical session per-se, although some technical information will be presented.
Speakers:
James M. Galvin, eList eXpress LLC, USA "The Truth About Email"
Ted Gavin, SpamCon Foundation, USA "The Real Effects of E-Mail Abuse"
Patrik Fältström, Cisco Systems, Sweden "Email as a Transport Protocol"
Moderator: **James M. Galvin**, eList eXpress LLC, USA

Technologies for Enhancing Privacy (T-7)

Privacy protection is a hot topic and a concern for many people since online activities of an individual can be monitored, tracked and recorded in great detail posing considerable threats to individual privacy. Increased security measures also pose threats to privacy requirements. Privacy protection is addressed by new technologies and business models and technological tools to protect online privacy perform many different functions. The session will give an overview of the various technological tools that can help people protect their online privacy. Legislative and regulatory issues will also be addressed.
Speakers:
Alberto Escudero-Pascual, Royal Institute of Technology, Sweden, "Privacy in the Next Generation Internet: Data Protection in the Context of European Union Policy"
L Jean Camp, Harvard University, USA, "Privacy Enhancing Technologies"
Ido Dubrawsky, Cisco Systems, and Lance Hayden, Cisco Systems, USA, "Wireless LANs and Privacy"
Moderator: **Marian Grubben**, European Commission, Belgium

Extra-Territoriality and International Politics (G-1)

By strengthening transnational actors and processes, does the Internet diminish the primacy of states and the inter-state system in world affairs? Or will it lead to an increase in extra-territoriality, in which governments attempt to reach beyond their country's

physical borders to control conduct and content on the Internet (e.g. the Yahoo! case, in which a French court has attempted to apply French law to the content stored in a server in the US.).
Speakers:
William J. Drake, University of Maryland, USA,
Francis Fukuyama, School of Advanced International Studies (SAIS), USA
Michael A. Geist, University of Ottawa Law School, Canada
Elliott Maxwell, USA
Eli M. Noam, Columbia University, USA
Moderators: **William J. Drake**, University of Maryland, USA
Elliott Maxwell, USA

Governance at a Regional and National Level (G-3)

Governance issues are increasingly being addressed at national and regional levels. This panel examines developments that are the by-products of global processes in DNS administration and e-commerce. An historical perspective on national domain name administration is also included.
Speakers:
Keith Besgrove, National Office of the Information Economy (NOIE), Australia "Domestic and Global Domain Name Policies: The Australian Government's Experience"
Kenneth Neil Cukier, USA "Eminent Domain: The History of Jon Postel's Delegation of ccTLDs"

Reporting from the Front Lines of the Internet Revolution (G-13)

This panel includes several of the leading reporters and editors working the "IT beat." Over the last few years, they have been reporting on exciting product developments-and failed business models, spectacular Internet IPOs-and even more spectacular flame-outs. In this session they will share the insights they've gained and discuss the big opportunities and the big challenges they see in the months and years ahead.
Speakers:
Dan Gillmor, San Jose Mercury News, USA
Louise Kehoe, Financial Times, USA

Steven Levy, Newsweek, USA
Walt Mossberg, Wall Street Journal, USA
Moderator: **Louise Kehoe**, Financial Times, USA

Open Source Software (G-15)

Is the open source model still as revolutionary as once believed? This panel will review current trends in this alternative to proprietary software.
Speakers:
Larry Lessig, Stanford University and author of "The Future of Ideas", USA
Eben Moglen, Columbia Law School and Free Software Foundation, USA
TBD
Moderator: **TBD**

Country Mosaics (U-5)

Our Country Mosaics panels bring to you interesting and informative tales from the Internet frontiers -- this time from the Middle East and Africa. The first panel will feature perspectives on Internet regulation, online education, and regional cooperation in the Arab bloc (Saudi Arabia, Egypt and Jordan) and Africa (Uganda and Mozambique). Telecom environments, content regulation, knowledge management, and educational infrastructure will be covered.
Speakers:
Ibraheem Al-Furaih, KACST-Internet Services Unit, Saudi Arabia, "Internet Regulations, The Saudi Arabian Experience"
Magda Ismail, Harvard University, USA, "To Internet or not to Internet: The Case of Mozambique"
Mohamed Elnawawy, Telecom Egypt Data, SAE, Egypt, "Telecommunications Regulation Impact in Egypt"
Franck Martin, SOPAC, FIJI "Pacific Island Regional ICT initiatives"
Moderator: **Madanmohan Rao**, INOMY, India

15:00-15:30 **Afternoon Coffee Break**

15:30-17:00 **Semi-Plenary Sessions**

The Collaborative Internet: Can the Commons be Saved? (SP-4)

This panel will discuss the adequacy and effectiveness of the IETF and other Internet standards processes in the face of the increasingly intense commercial pressures and other barriers to cooperation.

Speakers:

Steve Crocker, Shinkuro, USA

Harald Alvestrand, IETF, Norway

David Farber, University of Pennsylvania, USA

Erik Huizer, Twente University, The Netherlands

John Gage, Sun Microsystems, USA

Bruce P. Mehlman, Technology Administration, U.S. Department of Commerce, USA

Michael D. O'Dell, Compass Rose Labs, USA

Stephen Squires, Chief Science Officer, Hewlett-Packard, USA

Moderator: **Charles Brownstein**, Corporation for National Research Initiatives, USA

Security and Dependability in the New Connected World (SP-5)

Recent dramatic events have underlined the critical importance of the security of electronic systems, and in particular, that of the communications networks. Modern society relies on the continuous availability of inter-dependant infrastructures for transportation; water and electricity; telephone networks; and computer networks. How interdependent are these infrastructures? How dependent are these infrastructures on the Internet plays and where are its strengths and weaknesses? What measures and what technologies can be used to reduce the risks of a chain of infrastructure collapses?

Speakers:

Jaap Akkerhuis, SIDN, Netherlands,

Gary McGraw, Cigital, USA

Clifford Neuman, University of Southern California - ISI, USA

Peter G. Neumann, SRI International, USA

Richard D. Pethia, CERT, Carnegie Mellon University, USA

Robert C. West, Critical Infrastructure Assurance Office (CIAO), USA

Moderator: **Roman Tirler**, European Commission, Belgium

Global Digital Divide (SP-7)

In recent years there has been a flurry of high-profile proposals for ambitious new international efforts to bridge the global digital divide. So how much progress has really been made? What can we learn from the efforts to date about what works and what does not, both at the level of international programs and at the grass-roots level within developing and transitioning countries? Leading participants in the global policy process will explore these and related issues.

Panelists:

Bruno Lanvin, The DOT Force and the World Bank, USA

Denis Gilhooly, United Nations Development Programme, USA

Frederick S. Tipson, The Markle Foundation, USA

George Vradenburg, AOL-Time Warner, USA

Ernest J. Wilson III, University of Maryland, USA

Moderator: **William J. Drake**, University of Maryland, USA

17:00-19:00 **Welcome Reception**

Awards at Welcome Recption:

The 2002 Jonathan B. Postel Service Award

The 2002 IEEE Internet Award to Dr. Stephen Crocker

The INET 2002 Best Poster Award

Thursday, 20 June 2002

07:30-17:00 **Registration**

07:30-08:30 **Continental Breakfast**

08:45-09:15 **A Conversation with Arthur C. Clarke**

Arthur C. Clarke, author of 2001-A Space Odyssey and inventor of the geo-synchronous communications satellite has inspired and shaped the vision of many of the people who have built the Internet.

Speaker: **Arthur C. Clarke** (by video) Sri Lanka

In conversation with: **George Sadowsky**, Executive Director,

Global Internet Policy Initiative, USA
and **Alan Greenberg**, Board Member, Internet Society, Canada

09:15-10:30 **Is the Internet Revolution Over?**

The end of the dot-com boom have led some to conclude that the Internet phenomenon was nothing but hype and deception. Yet, the people building and shaping the Internet know that the story has just begun. Billions of dollars continue to be invested in the basic infrastructure of the Net and now technologies like 802.11 (WiFi) promise to change the architecture and the economics of the Internet.
Speakers:
Reed Hundt, former Chairman of the U.S. Federal Communication Commission and Senior Advisor, Information Industries, McKinsey and Co., USA
Sky Dayton, founder and CEO, Boingo Wireless, and founder and Chairman of Earthlink, USA
Moderator: **TBD**

10:00-19:00 **Exhibit**

10:30-17:00 **Poster Display**

10:30-11:00 **Morning Coffee Break**

11:00-12:30 **Track Sessions**

Mobile Internet Applications (T-2)

Mobility and mobile Internet are poised to be popular means for mobile users. New applications will be possible based on these. What are the issues facing us in developing the mobile applications?
Speakers:
Cristian Hesselman, Telematics Institute, The Netherlands, "Distribution of Multimedia Broadcasts in a Future Mobile Internet"
Theo G. Kanter, Ericsson Research, Sweden, "Adaptive and Extensible Mobile Communication"
Johan Hjelm, Ericsson, Sweden, "Sensor Information Meets Situated Services"

Moderator: **Erik Huizer**, NOB, The Netherlands

What is the Future of TCP? (T-8)

Arguments for and against TCP over the next-generation Internet continue to rage on. Many of the arguments seemingly arise from parochial interests, e.g., the traditional Internet & web, wireless data, wireless voice, high-performance networking, and multimedia. This panel will bring together experts from the aforementioned areas to debate the merits of TCP for the next-generation Internet.

Speakers:

Matt Mathis, Pittsburgh Supercomputing Center, USA

Randall Stewart, Cisco Systems, USA

Malathi Veeraraghavan, Brooklyn Polytechnic University, USA

Wu-chi Feng, Oregon Graduate Institute, USA

Micah Beck, University of Tennessee, USA

Moderator: **Wu-chun Feng**, Los Alamos National Laboratory & Ohio State University, USA

Private Governance: Perils and Prospects for Self-Regulation (G-2)

Self-regulation may have been the most appropriate form of governance for the dawn of the Internet, but serious questions have been raised about self-regulation's effectiveness and legitimacy. Oversight, transparency and consensus are in short supply, and governments around the world are moving their borders ito cyberspace. This panel will discuss the pressures to move the Internet into the mainstream of regulation and governance and the implications of this for commerce, civil liberties and international cooperation.

Speakers:

James Lewis, Center for Strategic and International Studies, USA "Limits and Opportunities in Self-Regulation"

Elliot Maxwell, USA, "Rethinking Boundaries in Cyberspace"

James Love, Consumer Project on Technology, USA, "The Hague Treaty on Jurisdiction"

Wolfgang Kleinwaechter, University of Aarhus, Denmark, "Self-Regulation: The Experience of ICANN"

Moderator: **James Lewis**, Center for Strategic and International Studies, USA

Economic Regulation (G-11)

As the importance of e-Commerce grows, the importance of regulation as a business enabler also grows. This panel examines emerging practices in electronic commerce and secure infrastructure from around the world.
Speakers:
Juan Zapardiel, Ministry of Finance/Inspection General, Spain, "Ubiquitous Commerce: A New Framework for Consumption Taxes"
Moderator: **Harold Feld**, Media Access Project, USA

2002: The Mobile Internet Unleashed? (U-10)

The untethered Internet has long been a distant promise. Is 2002 the year when new wireless technologies, standards, and business models converge to make this a reality? Hear what the industry leaders have to say about the future of the wireless Internet revolution and how it is going turn mankind back into nomads.
Joe Jasin, Wireless Blueprint, USA
Dan Lowden, Vice President, Marketing, Wayport, USA
Arturo Pereyra, General Manager & Founder, WiFi Metro, USA
Tapio Kaijanen, FICOM & ETSI, Finland
Adnan Hassen, FireExchange, Mexico
Moderator: **Venilde Jeronimo**, Fellow, Center for Internet Studies, University of Washington, USA

Metrics (U-1)

Measuring the Internet remains a challenge. Various models and metrics have been proposed. This panel reviews the state of the art and proposes new approaches.
Speakers:
Giampiero Giacomello, European University Institute, Italy
William Foster, Arizona State University, USA
William McHenry, University of Akron, USA
Michael Minges, International Telecommunication Union,

Switzerland
Steve Wendel, Bridges.org, South Africa
Madan Rao, Consultant and Author, India
Alan Mauldin, TeleGeography, Inc., USA
Moderator: **Larry Press**, California State University, USA

12:30-13:30 **Lunch Break**

13:30-15:00 **Track Sessions**

IETF: Convergence: The Telephone Number Mapping (ENUM) (T-I1)

The ENUM standard, developed in the IETF, maps a regular telephone number (that is, an E.164 number) to a list of URI's. This can be used in a large number of applications, including phone calls from the public switched telephony network to voice over IP. Even though it is developed in the ENUM Working Group in the IETF, close cooperation with ITU-T has been needed. This session will give different views on not only the standard itself, but also raise some issues that arise when two different standardization bodies work together.
Speakers:
Gary W. Richenaker, Telcordia Technologies, USA
Michael Specht, Emerging Technology Advisors, LLC, USA
Patrik Fältström, Cisco Systems, Sweden
Moderator: **Patrik Fältström**, Cisco Systems, Sweden

Optical Infrastructure: From the Backbone to the End-User (T-3)

Optical infrastructures provide an important bandwidth lift of the Internet. Even if this is generally viewed as a backbone technology, it also introduces new paradigms towards the end-user. The first presentation will talk about these new paradigms where the customer could influence the use of the optical infrastructure for its own context and requirements. The second presentation will talk about the manufacturer's point of view for optical switching. The last one is on a municipal project on building optical networks for up to the end user.
Speakers:

Bill St-Arnaud, CANARIE Inc., Canada, "Web Services Architecture for Management of Customer Owned Optical Networks"
Rajiv R. Shah, Alcatel, "Ensure a Smooth Transition Towards Optical Switching"
Bob Collet, Velocita, USA, "Contemporary DWDM Architecture"
Joe Mambretti, International Center for Advanced Internet Research, Northwestern University, USA, "Creating Next Generation Metro Optical Networks: Lightpath Services, OMNInet,and CivicNet"
Moderator: **Marc Blanchet**, Viagénie, Canada

Beyond Web Accessibility - Design for All and Internet Technology (T-10)

Up till now most of the emphasis has been on accessible design for the World Wide Web. The Internet offers far more than just the Web. This panel will explore some of the emerging Internet technologies and the reasons they should be designed for the largest audience possible.
Speakers:
Jose Luis Pardos, Spain "The Murcia Project"
Mark Urban and **Bill Laplant**, ICDRI, USA "Accessible Protocol for an Array of Devices to be Connected Over the Internet"
Bill Lawson, AT&T and ICDRI , USA, "Biometrics, People with Disabilities and The Internet"
Moderator: **Mike Burks**, AT&T, USA

Content: Free Speech or Lurking Dangers? (G-8)

This panel addresses tensions between free speech and its possible negative effects on vulnerable users of damaging content made available via the Internet. Although many in the networking community have applauded the Internet's status as an "electronic frontier", the Internet's broad diffusion has brought issues of content to the fore. This panel examines the tensions between different perspectives on on-line content.
Speakers:
Parry Aftab, Esq. WiredKids.org, USA, "Children Online"
Mark MacCarthy, Visa U.S.A. Inc., USA, "Use of Payment

Services (VISA) to Regulate Internet Gambling"
Moderator: **Adam Clayton Powell III**, Howard University Television, USA

Broadband Or Bust (G-14)

What are we waiting for, and how long do we have to wait? Are Cable and DSL the final solutions to the last mile dilemma, and if not, what else can we expect? A growing number of communities see high-speed Internet access as a necessary instrument for economic growth. Already, several unique public/private partnerships have emerged for bringing multi megabit wired and wireless solutions to the home and to small business. What do these efforts say about the appropriate role of government? Or is government the real last mile barrier?
Speakers:
Jeff Eisenach, President, Progress and Freedom Foundation, USA
Sharon Nelson, Chairwoman, Consumers Union and Director, Center for Law, Commerce, and Technology, USA
Michael Nelson, Director, Internet Technology and Strategy, IBM, USA
Jim Snider, Fellow, New America Foundation, USA
Moderator: **Rex Hughes**, Co-Director, Center for Internet Studies, University of Washington, USA

Museums and Entrepreneurial Universities (U-7)

This panel spans a wide range of creative uses of the Internet in education. On the one hand, museums can play a creative and innovative role in online education via exhibit displays on the Web, student-centred activities, interactive communities, and global classrooms. On the other hand, so can corporate universities and entrepreneurial universities via appropriate partnerships and cooperative alliances. This panel will cover the organizational and personal level potential of such initiatives, as well as their policy implications.
Speakers:
Sherwood Dowling, Smithsonian Institution, USA, "Panoramas: the North American Landscape in Art"

Jose Silvio, IESALC-UNESCO, Venezuela, "Improving lifelong e-learning through University-Industry Cooperation"
Daniel Stern, Uconnect, Uganda "Overcoming the Digital Divide in Education in Uganda"
Moderator: **Teresa Peters**, bridges.org, South Africa

Healthcare in the 21st Century (U-9)

Health care providers are increasingly turning to the Internet to improve the quality and delivery of medical products and services. Telemedicine also benefits from expanded Internet access. After September 11th, several global infectious disease networks have initiated web-based projects. Panel presents several case studies that have used the Internet to revolutionize healthcare in the 21st century.
Speakers:
Harrison "Lee" Rainie, Pew Internet & American Life Project, USA, "Findings from the Pew Internet & American Life Project"
Tobias Rademann, RIT-Consulting + Weiterbildung, Germany, "A Survey of the Current Employment of IT in Medicine and Recommendations for Actions"
Moderator: **Harrison "Lee" Rainie**, Pew Internet & American Life Project, USA

15:00-15:45 **Afternoon Coffee Break**

15:30-17:00 **Track Sessions**

Accessibility (G-9)

This panel reviews current legal and policy initiatives around the world for the accessibility of Internet-based services and content. What are the relevant existing laws, and what are the basics that should be implemented to make the Internet more accessible to people with disabilities?
Speakers:
Michael Burks, AT&T, USA
Cynthia Waddell, Attorney, USA
Rianne C. Ten Veen, Multiplicity, Belgium
Carol Boyer, RESNA Technical Assistance Project , USA
Paul Baker, Georgia Centers for Advanced Telecommunications

Technology (GCATT), USA
Moderator: **Michael Burks**, AT&T, USA

Privacy and Encryption (G-6)

Privacy and encryption are important areas of public policy. This panel will examine some of today's issues, particularly in areas affected by globalization and new technology. Issues of fairness and equity will guide the discussion.
Speakers:
David Stampley, Office of the Attorney General of the State of New York, USA, "Promoting Privacy Through Fair Technology"
Jefferson Coulter, Chaires & Associates, USA, "Privacy Around the World"
Rod Murchison, Ingrian Networks, USA, "Keeping Private Data Private"
Moderator: **Sarah Andrews**, Electronic Privacy Information Center (EPIC), USA

The Internet in Development: Four Vital Policies for 2002 (U-2)

In the mid-1990s, the Internet triggered widespread and fervent interest in harnessing information technologies for development. The panel examines the Internet, ICTs and telecenters for rural development, covering issues of sustainability, success factors, and policy implications.
Panel Discussion:
Juan Belt, Inter-American Development Bank, Cuba
Royal Colle, Cornell University, USA
Kenan Jarboe, Athena Alliance, USA
Charles Kenny, The World Bank, USA
Colin Maclay, Harvard University, USA
Raul Roman, Cornell University, Spain
Moderator: **Royal Colle**, Cornell University, USA

Education: Policy Solutions and Workforce Markets (2 Mini-Panels) (U-8)

This session includes two back-to-back, 45-minute panels on results from the LAAP(Learning Anytime Anywhere

Partnerships) program. The first explores institutional, state and regional policies necessary for effective online course delivery. The second focuses on strategic partnerships and other key factors in using the Internet for workforce training. Audience participation is encouraged throughout the dual session.
Policy Panelists:
Bruce Chaloux, Southern Regional Education Board, USA
Virginia Moxley, Kansas State University and the Midwest Consortium for Distance Learning, USA
Workforce Panelists:
Randy Lemke, President of International Communications Industry Association, USA
Joanna Kile, College of the Mainland, USA
Moderator: **Karen Levitan**, Program Officer, FIPSE/Dept.ED, USA

IETF: Layer 1 and 2 Service Provisioning and VPNs over IP and MPLS Packet Infrastructures (T-I2)

Though most service providers now use multiple parallel networks to support their portfolio of services, they are interested in using packet technologies, such as IP and MPLS, to converge these services onto a single core network, with resultant capital and operational savings. One of hottest topics in the IETF is the work taking place in the PWE3 (Pseudo Wire Emulation Edge to Edge) and PPVPN (Provider Provisioned Virtual Private Networks) working groups, focusing on the use of IP- and MPLS-based infrastructures. Attendees of this session will learn about the services being defined in these working groups and the various mechanisms proposed to support them.
Speakers:
Andrew G. Malis, Vivace Networks, USA, "PWE3 Working Group Activities and Status"
Rick Wilder, Masergy, USA, "PPVPN Working Group Activities and Status"
Scott Bradner, Harvard University, USA, "The Area Director's Perspective"
Moderator: **Andrew G. Malis**, Vivace Networks, USA

The Multimedia Internet (T-4)

With broadband local loop access becoming more readily available, real multimedia (video, audio etc.) applications at high quality are becoming a reality. However these applications need more than just bandwidth. This session discusses some of the underlying problems and solutions.
Speakers:
Erik Huizer, NOB, The Netherlands, "NOB Cross Media Facilities: Delivering Enriched Content, What is Needed?"
Richard Mavrogeanes, Vbrick, USA, "The New World of Streaming Media, Changing the Way"
Sooyeon Kim, Seoul National University, Korea, "HAT: A High-quality Audio Conferencing Tool Using MP3 Codec"
Moderator: **Erik Huizer**, NOB, The Netherlands

17:00-18:30 **Semi-Plenary Sessions**

Coordination or Control: The Institutionalization of DNS (SP-2)

There has been much discussion of how the DNS and naming on the Internet will evolve, and whether there is a role for a controlling body with a single naming convention or for a co-ordinating body to help ensure interoperability of multiple systems. Currently, ICANN (the Internet Corporation for Assigned Names and Numbers) is rethinking the evolution of its structure. This panel will feature various perspectives on how DNS should be institutionalized.
Speakers:
David Hernand, CEO, New.Net, USA
Richard Hill, International Telecommunications Union, Switzerland
J. Beckwith Burr, Wilmer, Cutler & Pickering and formerly US Dept. of Commerce, USA
Karl Auerbach,Director, ICANN, USA
Vint Cerf, WorldCom and Chairman, ICANN, USA
Hans Klein, Georgia Institute of Technology & Computer Professionals for Social Responsibility, USA

Peer-to-Peer (SP-3)

Peer-to-Peer networks hold the promise of restoring the Internet to the decentralized architecture that was for so long attributed to today's network of networks. This panel will examine current trends in technology design and their implications for intellectual property, anonymity, and efficient networking.
Speakers:
Clay Shirky, New York University, USA
David Molnar, ShieldIP, USA
Lorrie Faith Cranor, AT&T, USA
Moderator: **TBD**

IPv6 - Addressing the Future & Deploying IPv6

IPv6, the Next Generation Internet, preserves everything that's good about today's Internet - and adds a few critical enhancements. This semi-plenary session, which is part of the North American IPv6 Technology Deployment Summit, highlights a string of features and benefits on top of increased address space. For more on the IPv6 Technology Deployment Summit program, please go here.
Steve Deering, Cisco Fellow, USA "IPv6 - Addressing the Future"
Jim Bound, Staff Fellow, HP, USA "Deploying IPv6"

19:30-21:00 **Birds-of-a-Feather Sessions**

University Internet Studies Programs

Is Internet Studies an emerging academic discipline? This BoF examines the state and future direction of university based Internet Studies programs worldwide. Hosted by the Internet Political Economy Forum.
Organizers: **Rex Hughes** and **Bill Drake**

World Summit on the Information Society:

Come see what the ITU has planned for the World Summit on Information Society next year and provide your suggestions for speakers and topics.
Organizer: **Louise Lassonde**, ITU

Francophones:

This BoF is for INET 2002 attendees from countries that use the French language to discuss matters related to ISOC's missions in that language so as to optimize the level of discussions. Of particular importance will be questions of Internet governance and questions of cultural diversity. All discussions will take place in French.

Organizer: **Jean-Claude Guédon**

Friday, 21 June 2002

07:30-14:00 **Registration**

07:30-08:30 **Continental Breakfast**

08:30-09:30 **Wiretapping the Internet**

The attacks of September 11 led to vigorous debates in the U.S. and elsewhere over finding the right balance between privacy rights, law enforcement, and national security. The U.S. PATRIOT Act and similar legislation in other countries gives governments new tools to collect information sent over the Internet. Can governments fight terrorism without compromising privacy rights or hindering the growth of the Internet?

Speakers:

John Podesta, Georgetown University and former White House Chief of Staff in the Clinton Administration, USA

Jerry Berman, Center for Democracy and Technology, USA

William Crowell, CEO, Cylink, and former Deputy Director, National Security Agency, USA

Erika Mann, European Parliament, Germany

09:30-10:30 **The Next Killer App**

Networks keep getting faster, computers keep getting more powerful, and storage keeps getting cheaper. But where are the technology trends taking us? What new applications will the Next Generation Internet make possible? How will peer-to-peer, Grid computing, and the wireless Internet change the way individuals, businesses, and other organizations use the Net?

Speakers Include:

Irving Wladawsky-Berger, Vice President, Technology and Strategy, IBM, USA
Moderator: **David Farber**, University of Pennsylvania, USA

10:00-17:30 **Exhibit**

10:30-17:00 **Poster Display**

10:30-11:00 **Morning Coffee Break**

11:00-12:30 **Track Sessions**

IETF: Mobile Ad-hoc Networks (MANET) routing (T-I3)

The session will consist of several presentations that provide an overview of Mobile Ad hoc Networking (MANET) technology, as well as several routing algorithms under consideration for standardization within the IETF's MANET working group.
Speakers:
Scott Corson, Flarion Technologies, USA, "An Overview of Mobile Ad hoc Networking"
Fred Baker, Cisco Systems, USA, "MANET extensions for OSPFv3"
Moderator: **Scott Corson**, Flarion Technologies, USA

e-Business: What Will be the Service Delivery Paradigm of the Future? (T-5)

Various service delivery models were employed prior to the dot.com meltdown. In a new world with tighter economic constraints which will prevail? Tom Agoston will argue that a modified ASP model has a bright future. Grover Righter will argue that the ability for an architecture to scale while maintaining real-time response will be critical.
Speakers:
Thomas C. Agoston, IBM Global Services Asia Pacific, USA, "ASP's Ashes: Application Hosting on the Net"
Grover Righter, Kabira Technologies, USA, "Session Management - The NEXT e-business Challenge"
Moderator: **John H. Hine**, Victoria University of Wellington, NEW ZEALAND

Internet-enabled Democracy (G-4)

Using the New Media to Build a New Politics: Widespread adoption of the Internet continues to challenge the historic way politics and government function in nations around the world. Not only can the proliferation of government online services help make the state more transparent and accountable to citizens, Internet-enabled organizing offers new ways for citizens to come together to make collective demands.
Speakers:
Veni Markovski, Global Internet Policy Initiative, Bulgaria
Mark Walsh, Democratic National Committee, USA
Carol Darr, Democracy Online Project, George Washington University, USA
Moderator: **David Lytel**, Democrats.com, USA

e-Government (G-5)

Just as e-business is transforming companies, e-government promises to make governments more effective, more responsive, and more efficient. But how many real projects yield real benefits? What are the biggest challenges?
Speakers:
Werner Klaering, City of Vienna, Austria, "e-Governance with the City of Vienna, Austria"
David Billeter, CriMNet, USA, "CriMNet - Minnesota's Criminal Justice Information"
Suzanne Peck, CTO, District of Columbia Government, USA
Moderator: **Vivek Kundra**, County Government of Arlington, Virginia, USA

Security and Anti-terrorism (G-10)

Just as the internet is changing business and society, it is offering new opportunities to both law enforcement and to crime. Law enforcement agencies are increasingly concerned with the use of the Internet by terrorists and malicious hackers. The possibilities for Internet policing are expanding and the legal framework governing such techniques is still evolving. How are terrorists, national liberation movements, and computer virus writers using the Internet? What can and should law enforcement agencies do in response?

Speakers:

James Lewis, Center for Strategic and International Studies, USA "Surveillance in a Ubiquitous Computing Environment"

Jonathan Rusch, Georgetown University Law Center, USA, "The Social Psychology of Computer Viruses and Worms"

Shyam Tekwani, Nanyang Technological University, Singapore, "How Terrorists and Rebel Groups use the Internet"

Motohiro Tsuchiya, Cyberspace Policy Institute, George Washington University, USA, "Comparative Studies of Encryption Regulations in the U.S. and Japan"

Moderator: **James Lewis**, Center for Strategic and International Studies, USA

Broadband and the Public Interest (G-12)

The global deployment of broadband has been deemed a national priority by dozens of countries. This panel debates the various policy and technology approaches underway.

Speakers:

Mark Wahl, Center for Digital Democracy, USA, "Cable Broadband and the Public Interest"

Robert Cannon, Washington Internet Project, USA, "FCC and the Internet: 35 Years of Unregulation"

David Owen, Alcatel, USA

Moderator: **Mark Wahl**, Center for Digital Democracy, USA

Connectivity, Commerce and Cooperation (U-4)

Global e-commerce can help leverage the international reach of the Internet for local businesses in developing nations, for uses ranging from exports to outsourcing. The Internet can also help foster cooperation between countries on the economic front. Pricing and literacy have key influences on Internet access in this regard. This panel of experts will throw light on new aspects of the Internet in development.

Presenters:

Teresa Peters, Bridges.org, South Africa, "Connecting Policy to People on the Ground"

Daniel Salcedo, PEOPLink.org, USA, "Democratizing Global e-cCmmerce"

Sam Lanfranco, York University & Black Creek Research Foundation, Canada, "Using the Internet to Build South-South Economic Cooperation"
Vanessa Gray and **Michael Minges**, ITU, Switzerland,"Socio-Economic Factors on Internet Use in SE ASIA"
Moderator: **Stefaan Verhulst**, Markle Foundation, USA

12:30-13:30 **Lunch Break**

13:30-15:00 **Track Sessions**

Network Management (T-6)

An important part of the Internet reliability is related to how providers (and large enterprises to a certain extent) are connected together. This inter-domain engineering is the focus of this track. One presentation describes how a large enterprise managed its multi-homing situation over the years. Another shows how providers are connected and the trends of local and private exchanges. The last presentation will be on case examples of inter-domain traffic engineering.
Speakers:
Nicholas R. Trio, IBM Corporation, USA, "Internet in the Large: Managing Multinational Corp"
Jan-Pascal van Best, Delft University of Technology, The Netherlands "Locality of Internet Connections"
Tracie E. Monk, Ixia, USA "Inter-domain Traffic Engineering: Principles and Case Examples"
Moderator: **Marc Blanchet**, Viagénie, Canada

How I Would Fix the Internet (T-9)

The Internet is still evolving and problems remain. What can be done to make the Internet a more secure, reliable, and flexible platform for e-commerce, e-government, entertainment, and education.
Speakers:
Peter Freeman, National Science Foundation & Georgia Institute of Technology, USA

IETF: Advances in Optical Networking Panel + Presentations (T-I4)

Even though the IETF does not define optical networking technologies themselves there are a number of IETF initiatives that involve the control of optical networks from an IP point of view. The most comprehensive work is being done in the Common Control and Measurement Plane (ccamp) working group, which is defining common ways to control sub-IP networks including all-optical ones. The ccamp working group is taking input from the Internet Traffic Engineering working group (tewg) to define requirements. In addition the IP over Optical (ipo) and IP over Resilient Packet Rings (iporpr) working groups are defining the mechanisms that are specific to different types of optical networking technologies. This session will explore the work of these IETF working groups and how they relate to work being done in other standards organizations.
Speakers:
Andrew G. Malis, Vivace Networks, USA "Interactions Between Data Plane and Optical Plane Signaling"
Ron Bonica, Worldcom, USA
Lou Berger, Movaz Networks, USA
Moderator: **Scott Bradner**, Harvard University, USA

Civil Society (G-7)

The Internet has been a boon for non-governmental and non-corporate institutions, enabling them to disseminate information and knowledge freely, organize campaigns and contribute to policy formation in ways that were difficult or impossible in the pre-Internet era. This panel will examine how the freedoms which civil society groups took for granted are now being circumscribed by legal and other means.
Speakers:
Hans Klein, Computer Professionals for Social Responsibility & Georgia Institute of Technology, USA "The Big Picture: Enclosing the Information Commons Through Governance, Lead Agencies, and Property Rights"
John Naughton, The Open University, United Kingdom "Internet

and Civil Society"
Ravi Dhar, Dept of Journalism, Punjab Agricultural University, Ludhiana, India "Empowerment in India"
Moderator: **Adam Peake**, Center for Global Communications (GLOCOM), Japan

Winning ICT Stories: Lessons Learned from Internet Frontiers (U-3)

How effective is the Internet as a cost effective technology for the citizens of emerging economies to use for empowerment and development? Back by popular demand, this panel will feature the winners of the ICT Stories competition organized by infoDev and IICD. The storywriters will discuss policy considerations and recommendations in areas like legislation, intellectual property rights, and support.
Speakers:
Gaurab Raj Upadhaya, For, Radio Sagarmatha, Nepal "Marrying Radio with Internet in Nepal"
Satyan Mishra, Drishtee, India "Connecting India Village by Village"
Becky Wachera, Wikyo Akala Project/Ecosandals.com, Kenya
Matthew Meyer, Wikyo Akala Project/Ecosandals.com, Kenya "Sole Comfort Dot-Com: Bridging the Global Income Gap Through Hard Work, Quality Sandals, and ICTs"
Kim Lowery, Kabissa - Space for change in Africa "Kabissa - Space for change in Africa"
Moderator: **George Sadowsky**, Internews and GIPI, USA

Poverty Reduction and Development (U-6)

Is the Internet a cost effective technology for empowerment and income generation? Its potential in rural India as well as in the rest of the developing world is as yet largely unrealized, and unless action is taken, the new technologies could become another tool for exclusion of the poor from economic growth. Even where successful strategies for economic development have been identified, such as IT outsourcing, are we raising expectations too high and will we end up too much excess capacity? Moreover, when developing countries become part of

cyberspace, will they may remain invisible in a virtual digital divide?

Speakers:

Charles Kenny, The World Bank, USA "Is The Internet a Useful Tool for Direct Poverty Alleviation?"

Simone Cecchini, The World Bank, USA "ICT for Empowerment and Poverty Reduction in rural India"

Jeremy Hockenstein, Digital Divide Data, USA "IT Outsourcing to the Developing World: The Case of Cambodia"

Moderator: **TBD**

15:00-15:30 **Afternoon Coffee Break**

15:30-17:00 **Semi-Plenary Sessions**

Intellectual Property and the Internet (SP-1)

The Internet challenges long-standing practices of intellectual property rights. Intellectual property interests are not only resisting this threat, they are increasingly asserting control over online practices and technological development.

Speakers:

Cindy Cohn, Electronic Frontier Foundation (EFF), USA

David Maher, Sonnenschein Nath & Rosenthal and ISOC, USA

Michael Froomkin, University of Miami School of Law, USA

Moderator: **Jean-Claude Guedon**, University of Montreal, Canada

e-Science and Grid Computing: Hypes and Hopes (SP-6)

e-Science (enhanced science) refers to large-scale science carried out through distributed global collaborations, which typically require access to very large data collections, very large scale computing resources and high performing visualization. The Grid architecture is the best candidate for providing the computing and communication environment required for e-science. The Grid approach may be summarized as distributed computing for sharing resources and data on a global scale between numerous, heterogeneous, dynamic organizations. Is Grid a fundamentally new paradigm or just a collection of existing concept and ideas? What are the technological,

industrial, operational challenges for developing and deploying GRID infrastructures? Is it doable? Is it what e-science needs?
Speakers:
L. O. Hertzberger, University of Amsterdam, The Netherlands
Harvey B. Newman, California Institute of Technology, USA
Ty Rabe, Compaq, USA
Peter Toft, HP Laboratories, United Kingdom
David J. Wallace, Loughborough University, United Kingdom
Stuart Feldman, IBM, USA
Moderators: **François Fluckiger**, CERN, Switzerland
Roman Tirler, European Commission, Belgium

17:00-18:30 **Who Speaks for the Internet User?**

Which new technologies, new standards, and new policies will define the Next Generation Internet? And how can Internet users understand and shape the evolution of the Internet? How can we make sure that "the Internet is for everyone?" The Internet Society was created to address these and related questions. How can ISOC and other non-governmental organizations ensure that critical decisions about Internet technology and policy benefit Internet users and not just IT companies and governments?
Speakers include:
Erika Mann, European Parliament, Germany
Jim Galvin, eList eXpress LLC and Vice President, Chapters and Individual Members, Internet Society, USA
Hans Klein, Georgia Tech and Chairman, Computer Professionals for Social Responsibility, USA
Moderator: **Alejandro Pisanty**, UNAM, Mexico

18:30-20:00 **Birds-of-a-Feather Sessions**

The Next Generation of INET

The Internet Society's INET conference is the oldest and most comprehensive Internet conference. How can we change and improve the format and focus of the conference.
Organizers: **Richard Perlman, Lucent and Vice President for Conferences, Internet Society and**

Michael R. Nelson, IBM and Co-Chairmman of INET 2002

Global Internet Policy:

How can the Internet policy-making process be improved? Exchange ideas on the future of Internet policy and standards.
Organizer: **Stefaan Verhulst**

Developing World Internet

Involved with expanding the Internet and ICT opportunities in emerging countries? Come share hands-on experiences and discuss the state of both institutional and grassroots ICT developmental programs.
Organizer: **Chris Coward**

附件三

IPv6 Technology Deployment Summit

18-21 June, 2002

Crystal Gateway Marriott

Arlington, VA

Program

Wednesday June 19, 2002

Session 1 - IPv6 Key Note Speeches

Session Chair:

Larry Levine, Space and Terrestrial Communications Directorate, CECOM, USA

13:15 - 13:30 **Welcome and Introductions** - *Latif Ladid, President IPv6 Forum, Ericsson, Luxumbourg*

13:30 - 14:30 **Let us Join Hands in a Systems Adventure - Introducing New Technology** - *Dr. Alan Nemeth, Staff Fellow, HP and Technical Director High Performance Systems Division, USA*

14:30 - 15:30 **Beyond June 2002 - Moving IPv6 to Production** - *Joel Bion, Cisco Vice President Internet Technologies Division, USA*

15:30 - 15:45 **Break**

Session 2 - IPv6 Deployment; The Way Forward

Session Chair:

Jordi Palet, CEO Consulintel, Inc., Spain

Bertram Schaedle, University Hospital of Tuebingen, Germany
Wolfgag Fritsche, IABG, Germany
Milla Huusko, VTT Oulu, Finland

14:00 - 14:45 **IPv6 Deployment Scenario #2 - IPv6 Deployment within the DoD** - *Mike Brig, SPAWAR U.S. Navy, USA*

14:45 - 15:30 **IPv6 Deployment Scenario #3 - IPv6 and Mobile Terminals** - *John Loughney, Nokia, Finland*

15:30 - 15:45 **Break**

15:45 - 16:30 **IPv6 Deployment Scenario #4 - Why IPv6 and What We Learned So Far** - *Mattias Lignell, Skanova Networks, S-Lab*

Semi-Plenary Session: IPv6 - Addressing the Future & Deploying IPv6

Session Chair:
Latif Ladid, Ericsson, Luxumbourg

17:05 - 17:35 **IPv6 - Addressing the Future** - *Steve Deering, Cisco Fellow, USA*

17:35 - 18:05 **Deploying IPv6** - *Jim Bound, Staff Fellow, HP, USA*

18:05 - 18:30 **Q&A**

Friday June 21, 2002

Session 5 - IPv6 Deployment Systems Integration

Session Chair:
Edward Kierman, Space and Terrestrial Communications Directorate, CECOM RDEC, USA

08:30 - 10:00 **Enabling IPv6 Software Development** -
Part One - *Hemanth Dattatreya, HP, India*
Part Two - *Gopi Garge, India Internet Fellow, India*
Part Three - *Stewart Tansley, Microsoft, USA*

10:00 - 10:45 **Deployment Status and Lessons Learned in Japan** - *Takashi Arano, Board Member IPv6 Forum, Japan*

10:45 - **Break**

11:00

11:00 - 11:45 **Recovering the Lost Internet with Encrypted IPv6** - *Bob Frankston, USA*

11:45 - 13:00 **Lunch**

Session 6 - IPv6 Deployment Technology Around the World

Session Chair:

Yong-Jin Kim, ETRI, South Korea

13:00 - 13:45 **IPv6 in 3G and Beyond** - *Chuck Powers, Motorola, USA*

Session 7 - IPv6 Deployment Vendor Product Presentations

Session Chairs:

Hemanth Dattatreya, HP, India

Gopi Garge, India Internet Fellow, India

13:45 - 15:15 **IPv6 Vendor Product Presentations**

IBM - Brian Carpenter, Switzerland

Compaq - Dennis McMann, USA

Microsoft - Mark Madigan, USA

HP - Michael Yu, USA

15:15 - 15:30 **Break**

15:30 - 17:10 **IPv6 Vendor Product Presentations**

Cisco - Bryan McLaughlin, UK

Hitachi - Julie Ma, USA

Nokia - Karl Danz, Finland

Ericsson - Fred Terhaar, USA

Sun - Jim Laurent, USA