



The Americas Summit of Academic Networks

23 - 24 | 01 | 2019

Mexico City

INDEX

THE AMERICAS SUMMIT OF ACADEMIC NETWORKS.....	2
WHEN AND WHERE.....	4
EXPECTED PARTICIPANTS.....	5
AGENDA.....	6
PRESENTATIONS.....	8
ABOUT THE PARTICIPANTS AND SPEAKERS.....	11



THE AMERICAS SUMMIT OF ACADEMIC NETWORKS

Research education networks play a foundational role in the creation and operation of the cyberinfrastructure to support knowledge societies. Education, research, and development activities are pillars to create economic growth and wealth. Digital transformation could help to equalize opportunities across countries with a very different level of development. Additionally, research and development activities are not anymore limited to the boundaries of a single state and cooperation will give the continent an additional advantage and the space to build a stronger future.

The Americas Summit of Academic Networks aims to define a common agenda for the continent, at the highest level, to attend urgent challenges, foster synergies, increase cooperation, create opportunities and positive changes for the NRENs, RRENs to support Science, Technology, and Innovation.

Organized by RedCLARA, CANARIE, and Internet2, this meeting will count with the participation of the primary stakeholders able to support a common agenda which requires agreements in many aspects.



TLA
TELOL
centro
cultural CO
universitario

WHEN AND WHERE

Dates: January 23rd and 24th, 2019.

Venue: Room 1 University Tlatelolco Cultural Centre, UNAM (Sala 1, Centro Cultural Universitario Tlatelolco, UNAM).

Address: Ricardo Flores Magón 1, Col. Nonoalco-Tlatelolco C.P. 06995, Mexico City,.

EXPECTED PARTICIPANTS

RRENs and NRENS:

- Jim Ghadbane, CEO CANARIE (Canada)
- Luis Cadenas, CEO RedCLARA (Chile)
- Howard Pfeiffer, CEO Internet2 (USA)
- Carlos Casasus, CEO CUDI (Mexico)
- Nelson Simoes, CEO RNP (Brazil)
- Juan Pablo Carvallo, CEO RedCEDIA (Ecuador)
- Paola Arellano, CEO REUNA (Chile)
- Luz Miriam Díaz, CEO RENATA (Colombia)
- Marco Antonio To, CEO RAGIE (Guatemala)
- Benedicto García, CEO RUNBA (Nicaragua)
- Carlos Guzman, CEO RedCONARE (Costa Rica)
- Juan José Sánchez, CEO RAICES (El Salvador)
- Mirta Podesta, CEO RAU (Uruguay)
- Juan José Nicolás, CEO InnovaRed (Argentina)

Other organizations:

- Louis Fox, CEO CENIC
- Kevin Thompson, National Science Foundation
- Julio Ibarra, Florida International University

AGENDA

January 23 rd , 2019	
7:30 – 9:00	Transfer from de Hotel to the University and registration
9:00 – 10:00	Meeting opening – the goal of an Americas summit (RedCLARA, Internet2, CANARIE)
10:00 – 11:00	Internet2 - The science and education cyberinfrastructure in the United States of America
11:00 – 11:30	Coffee Break
11:30 – 12:30	CANARIE - The science and education cyberinfrastructure in Canada
12:30 – 13:30	RedCLARA – Presentation – The Latin American Academic Networks
13:30 – 14:30	Lunch
14:30 – 15:30	NSF and AmLight – Presentation – Cooperation case, The AmLight Project
15:30 – 16:30	Science, technology and innovation – The case of Brazil
16:30 – 17:30	CENIC - Louis Fox
17:30 – 19:00	Free
19:00 – 22:00	Dinner – TBC

23

AGENDA 24th January 2019	
8:00 – 9:00	Transfer from de Hotel to the University
9:00 – 10:00	Working Session – Identifying Synergies and collaboration opportunities: Supporting scientific and educational collaboration
10:00 – 11:00	Working Session – Digital Platform for education and science: innovation and key services.
11:00 – 11:30	Coffee Break
11:30 – 12:30	Working Session – Building basis for a common view about the future of America NRENs – Risks – Challenges and a common approach
12:30 – 13:30	Working Session – Assessing the economic impact of Americas NRENs
13:30 – 14:30	Lunch
14:30 – 15:30	The cooperation agenda – Meeting Conclusions and next steps
15:30 – 16:30	Meeting Close and initial coordination for next meeting

24

PRESENTATIONS

The goal of the Americas Summit

Speakers: Luis Cadenas, Jim Ghadbane, Howard Pfeiffer

Introductory presentation to set the stage of the goals for the meeting, explaining the meeting methodology, introducing briefly participants. During the presentation some of the points to be detailed are:

- The case for NREN and RREN
- The relevance of cyberinfrastructure for the continent.
- Why set some common goal.

The science and education cyberinfrastructure in the United States

Speaker: Howard Pfeffer

The research and education (R&E) community—including the leading universities that founded Internet2—played a seminal role in the creation of the modern Internet and the applications that have made it one of the most transformative technologies of our time.

The network capabilities and abundant bandwidth environments that campus leaders built spawned network routing, the Web browser, search engine technology and social networking, which in turn created massively successful commercial businesses, from Google to Facebook, and Cisco Systems to Sun Microsystems. Compared to the initial \$250 million federal investments that enabled these innovations, the resulting societal and economic gain has been enormous—creating an annual economic boon of \$1.4 trillion.

The Internet2 community (including the same players and partnerships that launched the original Internet) believes that investing in a new global Innovation Platform of advanced networksolutions, along with unified cloud and trust services and applications—like those from the Internet2 NET+ and TIER initiatives—will produce a new wave of transformation for university operations and pedagogy, harnessing big data, and catalyzing team science to propel a new era of R&E-driven invention and innovation around the globe.

The science and education cyberinfrastructure in Canada

Speaker: Jim Ghadbane

CANARIE and its twelve provincial and territorial partners form Canada's National Research and Education Network. This ultra-high-speed network connects Canada's researchers, educators and innovators to each other and to global data, technology, and colleagues.

Beyond the network, CANARIE funds and promotes reusable research software tools and national research data management initiatives to accelerate discovery, provides identity management services to the academic community, and offers advanced networking and cloud resources to boost commercialization in Canada's technology sector.

Established in 1993, CANARIE is a non-profit corporation, with the majority of its funding provided by the Government of Canada.

The science and education cyberinfrastructure in Latin America

Speaker: Luis Cadenas

CLARA is the Latin American Cooperation of Advanced Networks, integrating the national research and education networks in the region. Clara build and deploy the cyberinfrastructure to support education, science, research, and development.

The Amlight Project

Speaker: Julio Ibarra

In response to the growing network requirements of these U.S.-Latin America collaborative science research activities, the Americas Lightpaths Express and Protect (AmLight ExP) project implements a hybrid network strategy that combines the use of optical spectrum (Express) and leased capacity (Protect), in order to build a reliable, leading-edge network infrastructure for research and education.

Science, technology and innovation – The case of Brazil

Speaker: Nelson Simoes

The National Education and Research Network (RNP) provides global integration and collaboration based on information and communication technologies for the generation of knowledge and the excellence of education and research.

Since 2002, it has been a Social Organization (OS) linked to the Ministry of Science, Technology, Innovations and Communications (MCTIC) and maintained by it in conjunction with the Ministries of Education (MEC), Culture (MinC), Health (MS) and Defense (MD), who participate in the Interministerial Program of RNP (PI-RNP).

Pioneer in 1992 as the national internet access network in Brazil, RNP's main task is to promote technological development and support the research of information and communication technologies, creating innovative services and projects, and

qualifying professionals. To this end, it provides public research and higher education and technological institutions with advanced network infrastructure that enables and facilitates collaborative research in several areas of knowledge. Through the applications of this network, it enables the execution of projects and the implementation of public policies in the areas of technology, education, health, culture and defense.

CENIC

Speaker: Louis Fox

CENIC connects California to the world — advancing education and research statewide by providing the world-class computing network essential for innovation, collaboration, and economic growth.

Established in 1997, this nonprofit organization operates the California Research and Education Network (CalREN), a high-capacity computer network with more than 8,000 miles of optical fiber. The network serves over 20 million users across California, including the vast majority of K-20 students together with educators, researchers, and individuals at other vital public-serving institutions.

Additionally, CENIC is closely involved with two important efforts to develop and expand networking capacity across the region, the nation, and the world. Pacific Wave is a wide-area distributed exchange platform that provides research and education networks throughout the Pacific Rim and the world with access to state-of-the-art peering and exchange services,

Science DMZs, software-defined exchange (SDX) and software-defined networking (SDN) capabilities. The Pacific Research Platform integrates Science DMZs into a high-capacity regional system that enables transfers of large scientific data sets.

Working Session: Identifying Synergies and collaboration opportunities to support scientific and educational collaboration

Working session to identify synergies and opportunities for cooperation. The outcome of this segment will be a small set of cooperation areas (no more than five) and key initiatives (two or three) as first steps for a future more ambitious agenda.

Working Session: Digital Platform for education and science, innovation and key services

Working session to identify the common set of services offered and identify opportunities to foster partnerships and complementarities that help NRENs to increase efficiency. How to begin a common approach en make the first steps toward a better coordination of efforts. The outcome would be a prioritized set of services and a plan to be able to coordinate efforts.

Working Session: Building basis for a common view about the future of America NRENs – Risks – Challenges and a common approach

Working session to identify main trends and discuss a common vision about strategic options for NRENs. The outcome is a shared view of main challenges for the next 5 years.

Working Session: Assessing the economic impact of Americas NRENs

Working session to evaluate the feasibility of building a fact-based analysis of the economic impact of NRENs. The outcome is a high-level plan to develop this study.

Final Session: Conclusions, remarks and next meeting

ABOUT THE PARTICIPANTS AND SPEAKERS



Jim Ghadbane, CANARIE President and CEO

As President and CEO, Jim is responsible for achieving the company's objectives as stated in its current agreement with the Government of Canada, including providing an internationally competitive ultra-high speed network for Canada's research, innovation and education communities; developing and implementing next generation technologies; and assisting Canadian firms and higher education institutions advance innovation and commercialization efforts.

Jim joined CANARIE as Chief Technology Officer in May 2010 and is an experienced leader in the ICT industry. Prior to joining CANARIE, Jim held a variety of executive positions at leading technology companies, including Bridgewater Systems (now part of Amdocs), Ceyba Corporation, Alcatel Corporation, and Newbridge Networks.



Luis Cadenas, CEO RedCLARA

Chief executive officer of CLARA, the Latin American cooperation of advanced networks has the responsibility of leading the organization to build and operate a common cyberinfrastructure platform for the national research and education networks in the region. He has been cofounder and president of Venezuelan research and education network, board member of the supercomputing center of the University of Los Andes in Venezuela and the technological park of The University Simón Bolívar and Venezuelan representative at the Economic and Social Council of UN.



Julio Ibarra, Researcher FIU

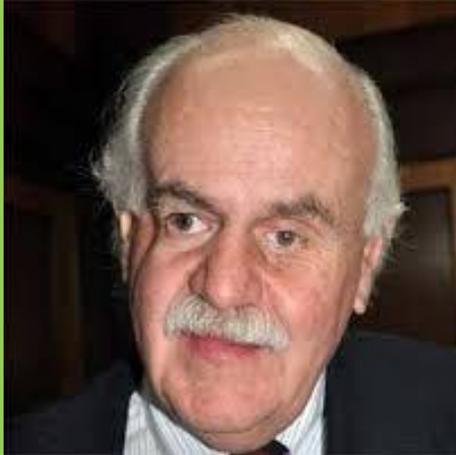
Julio Ibarra, FIU, PI, Assistant VP Technology Augmented Research at FIU. Has 30+ years of IT and Telecom infrastructure management, 14 of those years of specialization with Research and Education networks and project management. He is the PI of the NSF IRNC AmLight project. Ibarra will provide overall leadership and planning for the project team, and chair the Project Coordination Committee. Ibarra is a member of the Division of IT leadership team at FIU.



Nelson Simoes, General Director RNP

Nelson Simões is the general director of the National Network of Teaching and Research Association (RNP-OS), qualified as a Social Organization linked to the Ministry of Science, Technology and Innovation for the development of technological projects in advanced research and education networks in Brazil. As CEO, he is responsible for the high performance national infrastructure for communication and collaboration that encompasses the 600 leading Brazilian organizations of higher education, research and innovation.

He acted as advisor to the Internet Management Committee in Brazil, chosen as a representative of the scientific and technological community, the Brazilian Cinematheque and other organizations. He was director of the Latin American Cooperation of Advanced Networks (CLARA), international organization responsible for the Latin American regional research network. He is a Computer Engineer formed by the PUC-Rio and a Master in Communication Policies from UnB.



Carlos Casasús, General Director CUDI

Mr. Casasús was born in Mexico City, has a Licenciado degree from Universidad Iberoamericana and a Master in Business Administration, from the Harvard Business School. He worked for Telmex from 1976 to 1991, where he held several top management responsibilities, including that of Chief Financial Officer during Telmex's privatization process. From 1992 to 1994 he was the first President of Mexico's water commission. In 1994 he was appointed Under Secretary for Communications and Technological Development in Mexico's Federal Government. In 1996 he was charged to organize Comisión Federal de Telecomunicaciones, the Mexican Telecommunications Regulatory Commission where he served as its first President. Since 1998 he has been Director General of Corporación Universitaria para el Desarrollo de Internet (CUDI), a non-profit corporation in charge of Internet 2 in Mexico



Howard Pfeffer, President and CEO Internet2

Howard Pfeffer is a Technology Executive with over 30 years of experience in networking, systems and software engineering and is known for helping to pioneer the development of Broadband Internet, Voice over IP, Community Wi-Fi, and Business Services in the cable industry. He was most recently the Senior Vice President of the Broadband Technology Group at Time Warner Cable. In that role he led the architecture, engineering and development of the telecommunications infrastructure for Residential and Business Services. Pfeffer is a seasoned leader in the broadband industry and he possesses deep technical knowledge and an excellent track record of partnering and collaboration to convert technical capabilities into successful business outcomes.



Ana Husinger, Vicepresident, Community Engagement, Internet 2

Ana Husinger, Vice President, Community Engagement at Internet2, has executive management responsibilities for Internet2's membership and engagement programs to support Internet2's higher education, affiliates and industry members. She also oversees research engagement and international engagement as well as community events and communications. Ana and her staff work closely with Internet2 staff in other areas to support programmatic goals and recurring proactive interaction with the Internet2 member community. As part of community engagement, Ana also leads efforts within Internet2 and the broader R&E community to increase diversity and inclusivity and more meaningful participation of women in IT.