

**IEEE 3rd Conference on
Norbert Wiener in the 21st Century
Being Human In a Global Village**

📍 CEG Campus, Anna University, Chennai, INDIA.



<http://21stcenturywiener.org/>

IEEE Conference Number 48944

Event Exclusively for Students

Thursday, 22 July 2021

08.30 AM to 20.30 PM

NO REGISTRATION FEE

LIMITED SEATS

ALL TIMINGS ARE IN IST

TENTATIVE SCHEDULE

08.30 AM to 09.30 AM - Registration

09: 30 AM:


Welcome Address: Dr. T V Gopal, Conference Chair, 21CW2021

About the Program: Dr. Greg Adamson, Program Chair, 21CW2021

Special Address by Dr. Clinton Andrews, President, IEEE SSIT BoG



Clinton Andrews is a professor of urban planning and associate dean for research at the Bloustein School of Planning and Public Policy, Rutgers University, New Jersey, USA. He was educated at Brown and MIT in engineering and planning, and worked previously in the private sector and at Princeton University. He teaches public informatics, industrial ecology, green building, and coastal risk. Andrews performs research on how people use the built environment and the implications for work, climate, energy, resilience, sustainability, and health. His books include Humble Analysis: The Practice of Joint Fact-Finding, Regulating Regional Power Systems, and Industrial Ecology and Global Change.

	<p>He just completed service as co-editor of the Journal of Planning Education and Research and is now President of the IEEE Society on Social Implications of Technology.</p> <p>He is a member of the American Institute of Certified Planners, a licensed Professional Engineer, a Fellow of AAAS, and an avid experimenter with new methods for collecting field data in urban settings.</p>
10.15 AM:	Short Break
10.30 AM:	<p>Ethics - Panel Discussion</p> <p>Panel Chair: Prof. C R Muthukrishnan, Consulting Advisor to the CEO, Tata Consultancy Services & Formerly Deputy Director, IIT, Madras</p> <p>Prof. Greg Adamson – University of Melbourne, Australia</p> <p>Prof. Norberto Lerendegui - National University of General San Martin [UNSAM], Argentina</p> <div data-bbox="424 976 668 1216">  </div> <p>Prof C R Muthukrishnan has been Consulting Advisor to CEO, TCS, Deputy Director & Director-in-charge, IIT Madras and Professor of Computer Science & Engineering at IIT Madras in his career spanning 40 years. He has guided 30 Research scholars for PhD and MS degrees, over 300 students for MTech and BTech projects. Many of his students are holding top positions in academia and in reputed companies globally and many as entrepreneurs have created start-ups and developed them successfully.</p> <p>He is actively engaged in Accreditation work for NBA and NAAC for about five years now. He consults for academic institutions and industry.</p> <p>A chair in Computational Brain Research has been established in 2016 at IIT Madras by K.S Gopalakrishnan, his former student and co-founder of Infosys Limited.</p> <p>He has more than 40 publications in reputed International and National Journals and conferences. He has organized international conferences and has served in many committees of MCIT, AICTE, MHRD and DST. He was the principal coordinator of the multi-institution project on Information Technology during 1986-1993. He chaired the committee on e-Governance Meta Data and Data Standards of MCIT. Prof CRM has consulted widely for Industry in India and Abroad including TCS, CMC, Collab net, Google and Essentia. He was a member of the Tamil Nadu state IT Task</p>

		<p>Force 1998-2001, Indo-French Scientific Council member 2000-2005, He has been director on the Board of Tidel Park, Elcot, carritor and Indian Bank Limited. He is senior member of ACM, IEEE and ISTE. He is a Fellow of CSI and has received the Life Time Achievement award of CSI.</p> <p>He is a BTech (Hons) President Prize awardee for general proficiency from IIT Madras, MTech and PhD (1969) from IIT Kanpur.</p>
		<p>Prof. Greg Adamson Programme Chair & Associate Professor and Enterprise Fellow in Cyber Security School of Computing and Information Systems University of Melbourne Parkville, VIC, Australia</p> <p>Dr. Greg Adamson is an Associate Professor (honorary) at the University of Melbourne School of Engineering and chair of the IEEE Standards Association Special Interest Group on Blockchain. He has worked in the financial services industry since 1999 including managing cyber security and operational risk for a \$1.7bn business unit within a major Australian bank. His first bitcoin research was presented in mid-2014. In addition to financial services, he is President of the IEEE Society on Social Implications of Technology; chair of the IEEE Ad Hoc on TechEthics; and chair of the IEEE Internet Initiative sub-committee on External Engagements and Contributions. He is a consultant specialising in risk within emerging technologies at Digital Risk Innovation, Australia.</p>
		<p>Norberto Lerendegui Norberto Lerendegui holds the title of Electromechanical Engineer with Electronic orientation granted by the University of Buenos Aries (1984), and the title of Master of Electronic Engineering (with honors) granted by the Netherlands Universities Foundation (NUFFIC), Eindhoven, Holland (1986). He has 22 years of continuous professional activity in the biomedical engineering industry, having held the positions of Engineering Manager at GALIX SRL, Research and Development Manager at GBI International Corporation (USA and Argentina) (www.galix-gbi.com), Technical Service and Post-sale Manager at JAEJ SA (www.jaej.com.ar) and Firmware Lead Designer at ORLIGHT S.A. (www.orldlightlaser.com). Norberto Lerendegui also has 28 years of university academic experience, as assistant and head of practical work at the University of Buenos Aires</p>

	<p>(www.uba.ar), and as Professor at Favaloro University (www.favaloro.edu.ar), the University of Belgrano (www.ub.edu.ar), the Technological Institute of Buenos Aires (www.itba.edu.ar), and the National University of Entre Ríos (www.bioingenieria.edu.ar), an institution in which he has been a Visiting Professor since 1991. He is an IEEE member of the Computing Society (CS), the Society for Engineering in Medicine and Biology (EMBS), and the Society for Automation and Robotics (RAS). Academic Activity Norberto Lerendegui is Professor and Director of the Mechatronics Laboratory of the Technological Institute of Buenos Aires (ITBA).</p> <p>His professional interest lies in medical devices and mechatronic systems. He was Director of Undergraduate Programs at the University of Belgrano, Director and Organizer of the Postgraduate Specialization Program in Design and Maintenance of Medical Equipment at ITBA, and professor in several undergraduate and graduate courses, including Design of Medical Devices and Marco Regulatory FDA / CE. Norberto Lerendegui was invited to develop 16 conferences and workshops in Argentina and Latin America, he has 12 publications in specialized magazines and 17 presentations to congresses. He has been a member of the Scientific Committees of 6 National and International Congresses, and is currently a member of the Organizing Committee of the IEEE- EMBS International Congress to be held in Buenos Aires, Argentina in 2010. He is also president of the Bioengineering Committee of the Argentine Federation of Cardiology Activity in the Industry Norberto Lerendegui has led 22 projects for the development of medical devices (Holter Recorders and Analyzers, External Pacemakers, Cardiac Electrophysiological Stimulators, Laser Emitters and others). Many of these devices have been marketed in the US and the European Community (CE), having FDA approval (US) and CE marking. The GALIX MA-6C / R was the first Transesophageal Recording Ambulatory ECG Monitor to be FDA approved, and the GALIX PaceStar device was the first external pacemaker with data logging. Norberto Lerendegui was in charge of the massive installation of equipment in 6 large Argentine hospitals.</p> <p>He currently also serves as an advisor on biomedical / mechatronics engineering and FDA / EC regulations for biomedical products.</p>
12.00 PM:	Lunch

15.00 PM:

Dr. K Ramasubramaniam, Valiant Technologies - Cyber Security with Case Studies



Dr.Rama has been an Information security consultant, trainer and educator for over three decades. He has significant work experience in information systems controls and security. He worked with large manufacturing, consulting and service delivery corporations in Far East, South Asia, Middle East and Africa.

He is a consultant to a number of organizations in the commercial, government, armed forces, judiciary and law enforcement segments across Gulf nations, India, Far east and Africa. He served earlier as Global Chair of the Education and Awareness Principles Expert Group of Globally Accepted Information Security (GAISP), based in the United states and is former Global of the Accreditation Process committee of Open Information Systems Security Group (OISSG), based in the UK where he established their certification and accreditation processes. He is the charter President of the first chapter of ISC2 in India and served on the boards of Dubai, Chennai and Banaglore chapters of ISACA. He was formerly Managing Director of Thewo Corporate Services based in Lusaka, Zambia; Group Operations Director of Benetone Group of Companies based in Bangkok, Thailand and Commercial Director of Dynaspede Integrated Systems Ltd.

He holds Ph.D, MBA (UK), FCA, is a CISA, CISM, CISSP, CEH, CHFI, CSQP, Security+

15.30 PM:

Dr. Romola Vasantha Thumbadoo, Circle of Nations



Romola is the volunteer coordinator of the *Circle of All Nations*. The *Circle of All Nations* is neither an organization nor a network, but rather a global eco-community linked by late Algonquin Elder William Commanda's unshakeable conviction that in a very fundamental way, as children of Mother Earth, we all belong together, irrespective of colour, creed or culture, and that together, we must regain our respect for this penultimate mother.

Romola is of East Indian ancestry, was born in South Africa, and has resided in Canada since 1970, earning degrees in English Literature at McMaster University (BA Hons and MA.) She worked extensively for the federal government,

	<p>chiefly within the criminal justice system (federal corrections, Aboriginal justice and restorative justice) for over twenty-five years.</p> <p>Over the past decade, she has supported the efforts of Elder Commanda to advance Aboriginal awareness, racial harmony and peace building and environmental stewardship. She also serves as voluntary director of the Wolf Project, which is dedicated to honouring efforts to promote racial harmony.</p> <p>Romola is the author of two books on the work of ninety-six-year-old Algonquin Elder Dr. William Commanda, OC, (Learning from a Kindergarten Dropout Books 1 and 2) and has published a photo journal on her kayaking explorations of Bitobi Lake, Quebec, as viewed through the lens of indigenous wisdom.</p> <p>She is presently engaged in doctoral studies in geography and cyber cartography at Carleton University.</p>
<p>16.00 PM:</p>	<p>"Norbert Wiener: Technology as a Social Change Agent" - Panel Discussion</p> <p><u>Panel Chair:</u> Prof. Sergio Bittanti, Politecnico di Milano, Italy</p> <p>Prof. Junzo Watada, Waseda University, Japan</p> <p>Dr. (Ms) Heather Love, University of Waterloo, Canada</p> <div data-bbox="411 1301 671 1621">  </div> <p>Sergio Bittanti is a control scientist. He is professor of Model Identification and Data Analysis at Politecnico di Milano (Italy). His inspired teaching and research activity has attracted the attention of many young scholars (more than 350 Master theses in engineering). His research interests are in system identification and control theory, with a number of application studies, particularly in the field of transportation and energy. He is the author of many scientific papers, and the author or editor of several books.</p> <p>This activity is witnessed by a multitude of papers and books, not to speak of his contribution to the organization of international conferences as member of their Program Committees.</p> <p>In the Italian scientific community, he was the promoter of the initiatives that led to organization of the 18th IFAC World Congress IFAC 2011. The congress was held in Milano from August 28 to September 2, 2011, with a record number of participants, more than 2800 from 73 Countries.</p>




Junzo Watada (Senior Member, IEEE) received the B.Sc. and M.Sc. degrees in electrical engineering from Osaka City University, Osaka, Japan, and the Ph.D. degree from Osaka Prefecture University, Sakai, Japan. Until March 2016, he was a Professor of management engineering, knowledge engineering, and soft computing at the Graduate School of Information, Production, and Systems, Waseda University, Kitakyushu, Japan. He is currently a Professor with Universiti Teknologi PETRONAS, a Research Professor at the Research Institute of Quantitative Economics, Zhejiang Gaongshang University, China, and a Professor Emeritus at Waseda University. He is the President of the Forum for Interdisciplinary Mathematics, India, from 2019 to 2021, after serving as the Vice President for six years, and the President of the International Society of Management Engineers.

He received the Henri Coanda Medal Award from Inventico in Romania, in 2002, and the GH Asachi Medal from the Universitatea Tehnica GH Asachi, IASI, Romania, in 2006. He is the Principal Editor, Co-Chief Editor, and an Associate Editor of various international journals, including the ICIC Express Letters, the Information Sciences, the Journal of Systems and Control Engineering (Proc. IMechE), the International Journal of Innovative Computing, the Information and Control, and the Fuzzy Optimization and Decision Making.



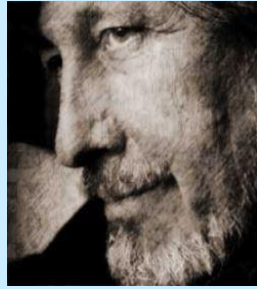
“I grew up in a small B.C. town on the western edge of the Rocky Mountains, completed a BA in English and BMus in Piano Performance on the west coast (at the University of Victoria), and then moved east for my graduate work in English (MA, Queen’s University; PhD, Indiana University). I then worked for three years as Assistant Professor of English at the University of South Dakota, where my teaching ranged from courses on American literary history, early twentieth-century American and transatlantic modernism, literature and science, and introductory composition.

In July 2018, I joined the University of Waterloo’s English faculty. Because I embrace interdisciplinary approaches to literary scholarship, my research and teaching often bring literature into dialogue with ideas from fields like science and technology studies, the medical humanities, and sustainability. My first book project looks at the ways in

		<p>which experimental modernist literature constitutes a cultural precursor to the technical and mathematical disciplines of information management that emerged during World War II; I have collaborated with faculty from medical programs to create courses that help future practitioners account for narrative elements of health and illness; and when I teach writing to students across different disciplines—particularly the sciences—I draw from my years of non-academic work experience developing public interpretive programs for Banff, Yoho, and Kootenay National Parks and writing scripts for the Indiana Public Media radio show “A Moment of Science.” Beyond the classroom, I am committed to advocating for the importance of humanities perspectives in contexts often dominated by scientific, applied, or technical approaches—such as the world of engineering. To this end, I have been affiliated with the IEEE’s Society on Social Implications of Technology (SSIT) since 2014 in a variety of capacities that range from organizing conferences to guest editing special issues of the IEEE Technology and Society Magazine. I also edit the organization’s monthly newsletter and was elected to a three-year term on the SSIT Board of Governors beginning January 2018.” – Dr Heather Love</p>
<p>17.30 PM</p>	<p>Robert (Bob) A. Dent, "IEEE Foundations and History"</p>	
		<p>Robert (Bob) A. Dent joined the Student Branch of IEEE in 1965 while he was a senior at Stevens Institute of Technology in Hoboken, NJ, USA, the new home of the IEEE History Center. He is particularly interested in the IEEE History Center, a center to preserve, research, and promote the history of information and electrical technologies.</p> <p>Bob says, "IEEE provided an opportunity to read and hear technical information, to develop professionally, and to network with my peers in the profession and the industry in which I had chosen to work." After 32 years of volunteering for IEEE, he joined the staff of IEEE as the Executive Director of the Power Engineering Society, now known as the Power & Energy Society (PES).</p>

18.15PM:

J. Mitchell Johnson, Abamedia, “Audio Visual on Norbert Wiener”



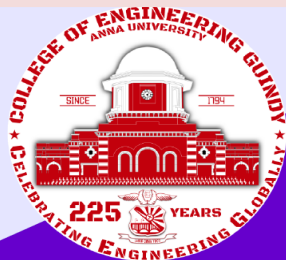
J. Mitchell Johnson writes, produces, directs, and shoots. After working for Charles Guggenheim in Washington, he founded his own independent media company, Abamedia. Johnson’s most recent dramatic feature film, World Without Waves, won Santa Fe Film Festival’s Milagra Award and premiered at Moscow’s International Film Festival. His directorial debut was the 1977 Van Cliburn Piano Competition PBS documentary, Contest to Carnegie Hall. The award-winning piece ushered subsequent PBS/A&E projects including USA (now Sundance) Festival-winner, Moses Pendleton Presents Moses Pendleton. Johnson and Abamedia’s work with Russian subjects began in 1995 with a 22-part television series produced for Russia’s ORT, co-ventured with ABC News-New York. In 1996, Johnson and a team of archivists and computer scientists started an online catalog project of Russia’s pre-eminent film archive at Krasnogorsk, Russia. Five years later, Abamedia’s website RussianArchives.com began to feature the completed database of 45,000 non-fiction films. From this effort sprung Abamedia’s year 2000 PBS Cold War television series, Red Files, which won the International Documentary Association’s “Best Limited Series” award. A graduate of USC film school, he is the past-President of the Lone Star Film Festival and serves on the board of San Francisco’s TRACK TWO: An Institute for Citizen Diplomacy.

**Closing Remarks and Summing Up of 22 July 2021
Dr. T V Gopal, Conference Chair**

19.00 PM

Inauguration of the Conference

<http://21stcenturywiener.org/>



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Register @ <https://bit.ly/21CW2021-SEE>

There is no registration fee for the students registering for this event.

The conference registration for 23 – 25 July 2021 is at:

<https://21stcenturywiener.org/registration-3/>