

Thursday, 15 November	
8:00	REGISTRATION OPEN
9:00-9:30	CONFERENCE OPENING: Homer Stavely, Common Ground Publishing, USA
9:30-10:00	PLENARY SESSION: Stephen Birch, University, Canada, 'When Science Gets in the Way of Policy: Economic Evaluation of Health Care'
10:05-10:35	BREAK & GARDEN SESSION
10:35-11:20	TALKING CIRCLES
Room 1	<i>Talking Circle: Science Pedagogy</i>
Room 2	<i>Talking Circle: Science Ethics</i>
Room 3	<i>Talking Circle: Applied Science</i>
Room 4	<i>Talking Circle: The Politics and Economics of Science</i>
Room 5	<i>Talking Circle: The Knowledge Systems of Science & History and Philosophy of Science</i>
11:20-12:15	LUNCH
12:15-13:30	PARALLEL SESSION 1 (75 minute Themed Sessions, 60 minute Workshops, & 60 minute Roundtable Session)
Room 1 PUBLIC ENGAGEMENT	<p>Deliberate, Discuss, Challenge: Perspectives on the Role of Public Engagement Dr. Clare Wilkinson, University of the West of England, Bristol, UK <i>Overview:</i> Discussing evaluation findings from a number of UK projects, the paper will discuss how public engagement encourages public participants to deliberate, discuss and challenge research ideas.</p> <p>Integrating Science into Civic Engagement: Promoting Environmental Justice in Low-income Communities Dr. Haco Hoang, Department of Political Science, Dr. Grady Hanrahan, California Lutheran University, Thousand Oaks, USA <i>Overview:</i> This project proposes a framework for understanding and promoting environmental justice in low-income, minority communities by integrating the insights of the physical and social sciences.</p> <p>Political Science for Russian Students in the Globalized Era Prof. Alecia Jioeva, Department of Language Communication School of World Politics, Lomonosov Moscow State University, Moscow, Russian Federation <i>Overview:</i> The presentation deals with the course of study in political science for Russian learners of English. Teaching Anglo-Saxon political culture is the priority for political education in today's Russia.</p>
Room 2 SCIENCE POLICY	<p>Mapping Research Activity in the Process of Making Science Policy Aviad Bar-Haim, Open University of Israel, Raanana, Israel <i>Overview:</i> In reformulating science policy, The Open University of Israel initiated a novel project, composed of two complementary processes: a top-down mapping of research activity, and a bottom-up self-organizing research groups.</p> <p>"Campaign" Science: Establishing Authority in Environmental Advocacy Julee Boan, Lakehead University, Thunder Bay, Canada <i>Overview:</i> The role of NGOs in transforming expert knowledge into meaningful information for laypeople and its importance for both scientists and policy-makers</p> <p>Assessing Daniel Bell's Forecast: Big Science and the Post-industrial Society Andrew Domondon, Faculty of Science and Engineering, Waseda University, Tokyo, Japan <i>Overview:</i> This paper examines the trajectory of post-WWII Big Science in the US to assess Daniel Bell's forecast that sociologizing—non-economic—goals, will take precedence over economic goals in determining science policy.</p>

12:15-13:30	PARALLEL SESSION 1 (75 minute Themed Sessions, 60 minute Workshops, & 60 minute Roundtable Session)
Room 3 CURRICULUM DEVELOPMENT	<p>Alternative Conceptions Held by High School Students in Mechanics Stephan Paraffin Mchunu, MST, University of Zululand, Empangeni, South Africa <i>Overview:</i> This reports the results of a study carried out to compare the effectiveness of three instructional approaches in alleviating conceptual difficulties and alternative conceptions of grade 12 learners in mechanics.</p> <p>The Effects of an Experimental Spiral Science Curriculum Taught in a Science Summer Camp to Middle School Girls and Boys Dr. Edith G. Davis, Florida A & M University, Tallahassee, USA <i>Overview:</i> This research compared the effectiveness of using an experimental spiral science curriculum to a traditional linear science curriculum for middle school students using a pre-service, in-service teaching component.</p> <p>Using Media Reports of Science as an Instructional Tool for Teaching the Nature of Science Prof. Gultekin Cakmakci, Hacettepe University, Ankara, Turkey <i>Overview:</i> This study aims to explore how media reports of science can be embedded into the teaching of science and examine what effects they have on student learning.</p>
Room 4 WORKSHOP	<p>Mad Scientist: Should Traver 1951 Be Retracted and How Matan Shelomi, Department of Entomology, University of California, Davis, USA <i>Overview:</i> In 1951, a delusional scientist successfully got her hallucinations published as fact. This workshop asks if we can we ethically retract such work?</p>
Room 5 WORKSHOP	<p>From Brains to Societies: The Emergence of an Empathic Ecology Dorothy Deasy, Olympia, Michael Ferguson, Department of Bioengineering, University of Utah, Salt Lake City, USA <i>Overview:</i> How do the core systems of our society employ empathy? This question will be explored as an interactive discussion following a brief overview of the brain science underlying empathy.</p>
Room 6 ROUNDTABLE SESSION: THE KNOWLEDGE SYSTEMS OF SCIENCE (*Runs 12:15-13:15)	<p>The Paradigm and the Metaphor Dr. Genevieve Later, Department of English and Modern Languages, Thompson Rivers University, Kamloops, Canada <i>Overview:</i> A comparative analysis of the paradigm and the metaphor, with preference given to the metaphor, as a key element in scientific discourse.</p> <p>Researcher Mobility in the Knowledge Making Process of Nobel Laureates: Studies of Creativity in the Science and Technology Interface Dr. Katarina Larsen, Division History of Science, Technology and Environment, KTH – The Royal Institute of Technology, Stockholm, Sweden, Dr. M.Laura Frigotto, Trento University, Italy <i>Overview:</i> This study focuses on knowledge making processes in science, technical skills and creativity related to researchers' mobility, enabling access to specific research facilities and equipment.</p> <p>Two Contrasting Paradigms of Science: Cartesian Mechanism and Undivided Wholeness Dr Siddharth Chatterjee, Department of Paper and Bioprocess Engineering, SUNY College of Environmental Science and Forestry, Syracuse, USA <i>Overview:</i> The widely prevalent paradigm of Cartesian mechanism (CM) underlying science is contrasted against the paradigm of undivided wholeness (UW). Three examples indicate that CM is a limiting case of UW.</p> <p>The Objective Lens: Objectivity as the Guise of Scientific Truth Vivian Sming Chen, Program in Art, California Institute of the Arts, Los Angeles, USA <i>Overview:</i> What are the implications of using the objective lens as a system for obtaining scientific truth? How is human regard towards others then affected by this system of objectivity?</p>
13:30-13:40	BREAK

13:40-15:20	PARALLEL SESSION 2 (100 minute Themed Sessions & 60 minute Roundtable Session)
Room 1 SCIENCE IN SOCIETY: 1	<p>Turkish Society's Approach to Science Gözde Efe, Department of Cinema & Television School of Communication Sciences, Anadolu University, Eskişehir, Turkey <i>Overview:</i> The paper presents a consideration of Turkish society's approach to science by analyzing media products produced in Turkey mentioning Darwin's 200th and evolution theory's 150th year in 2009.</p> <p>An Environmental Impact Assessment of Southern India's Fastest Growing Aviation Corridor: Social Impact and Economic Feasibility Prof. S. Ghosh, Vellore Institute of Technology, Karthik Ramaswamy, School of Mechanical And Building Sciences, Gautham Ramchandran, Rohan Kataria, Jethro Nagawkar, Prithviraja Basak, Saurish Yelchur, VIT University, Vellore, Vellore, India <i>Overview:</i> An environmental impact analysis of one of India's fastest growing aviation corridors is first presented, followed by a social impact analysis and its economic feasibility.</p> <p>Energy Limits in Planning and Development: Energy Return on Energy Invested Temis G. Taylor, Human Dimensions of Ecosystem Science and Management Department of Environment and Society College of Natural Resources, Utah State University, Logan, USA <i>Overview:</i> Energy return on energy invested (EROI) is an important physical limit not considered in planning and energy development. We explore the implicit treatment of EROI in the public process.</p> <p>Legal Transplants and the Ownership of Life: Regulation and Use of Synthetic Biology in Agriculture in Comparative Perspective Dr. Monica Eppinger, Program in Anthropology Department of Sociology and School of Law, St. Louis University, St. Louis, USA <i>Overview:</i> Using Ukraine and the United States as comparison cases, this paper finds interrelationship between the production of biological knowledge and regimes for regulating synthetic biology.</p> <p>The Impact of Socio-cultural Values on Economic Development: A Case Study of Pakistan Prof Dr Habib ur Rahman, Business Administration, Sarhad University of Science and Information Technology, Peshawar, Pakistan <i>Overview:</i> The paper discusses the socio-cultural values which directly or indirectly affect economic development.</p>

13:40-15:20	PARALLEL SESSION 2 (100 minute Themed Sessions & 60 minute Roundtable Session)
Room 2 HEALTH CONTREVERSIES	<p>The Exponent of Breath: How Foreign Evangelical Organizations Utilized a Public Health Lacuna in Japan for Their Own Benefit Dr. Elisheva Perelman, History Department, Millikin University, Decatur, USA <i>Overview:</i> Tuberculosis was a deadly, costly epidemic in early 20th century Japan. I discuss how it was nevertheless overlooked by Japan's government, and how evangelical groups used this to their advantage.</p> <p>The Contentious History of the Sexual Assault Evidence Kit Andrea Quinlan, Department of Sociology, York University, Toronto, Canada <i>Overview:</i> Drawing on interview data with medicolegal professionals and feminist activists, this presentation will chart some of the contentious history of the Canadian Sexual Assault Evidence Kit.</p> <p>The Credibility of Science in Health Controversies: The Case of Endocrine Disrupters' Effects on Male Fertility Laura Maxim, Institut des Sciences de la Communication, CNRS, Pascale Mansier, Laboratoire Communication et Politique, INSERM, CNRS, Paris, Natalia Grabar, Laboratoire Savoirs, Université de Lille, Lille, France <i>Overview:</i> We show that uncertainty in communication does not lower the credibility of public scientists. We analyze the "quality determinants" used by lay people for granting trust in science in controversies.</p> <p>Daily Newspaper Coverage of Life Sciences in the USA and France in a Context of International Trade Policy Conflict: The Case of Genetically Modified Organisms Stéphanie Proutreau, CNRS Institute for Communication Sciences, Professor Nicole D'Almeida, GRIPIC, Sorbonne (CELSA), Paris, France <i>Overview:</i> Addressing comparisons of science-for-biotech risk policies in the US and France and their conflicts in international I in relation with analysis of their national daily newspaper coverage of life sciences.</p> <p>Making an Impact? The Emergence of Improvement Science in Health Care Dr. Julie Reed, National Institute of Health Research Collaboration for Leadership in Applied Health Research and Care for Northwest London, Imperial College, London, UK <i>Overview:</i> Improvement science aims to improve the translation of health care research into benefits for patients. It challenges current scientific dogma and the impact of science on societal benefit.</p>

13:40-15:20	PARALLEL SESSION 2 (100 minute Themed Sessions & 60 minute Roundtable Session)
<p>Room 3</p> <p>THE IMPACT OF SCIENCE ON SOCIETY</p>	<p>Exploratorio de los Recursos de la Naturaleza: La naturaleza un laboratorio abierto para investigar Dr. Josep Font, Universidad Politecnica de Catalunya Manresa, Barcelona, Spain <i>Overview:</i> El Exploratorio de los Recursos de la Naturaleza ofrece actividades dinamizadas por científicos, con eje vertebrador el aprovechamiento de los recursos de la naturaleza, para involucrar a docentes y profesores de Secundaria</p> <p>Grupo de Recursos para la Didáctica de la Química: Acercar la química a la sociedad Dra Dolors Grau, Departamento de Ingeniería Minera y Recursos Naturales, Dra Ester Guaus Universidad Politecnica de Catalunya Manresa, Barcelona, Spain <i>Overview:</i> El Grupo de Recursos para la Didáctica de la Química ofrece actividades y materiales para acercar la química a los estudiantes de secundaria, involucrarlos y a la sociedad en general</p> <p>Modelo de Política Agrosocial para desarrollo socioeconómico en el Semiárido del Estado de Alagoas, Brasil. Prof. Dr. Jose Gomes Chaves, Universidade Federal de Alagoas, Maceió, Dr Francisco Rosari, FEAC, FEAC, UFAL, Jose Teodorico do Nascimento, CECA, UFAL, Brazil <i>Overview:</i> A proposta de desenvolvimento formará mão de obra qualificada à região, através do Curso de PG, Especialização em Ciências Ambientais – Semiárido –capacitando profissionais nativos, em distintas áreas de estudo.</p> <p>Participo (on line), luego existo: Un análisis de la participación social y política a través de Internet en España Dra Maria Rosalia Vicente, Dra Amparo Novo, Universidad de Oviedo, Oviedo, Spain <i>Overview:</i> Nuestro interés se centra en ver cuáles son los determinantes que influyen a la hora de participar on line en asuntos cívicos y involucrar en España</p>

13:40-15:20	PARALLEL SESSION 2 (100 minute Themed Sessions & 60 minute Roundtable Session)
Room 4 EDUCATIONAL ENGAGEMENT: 1	<p>Reflective Practice as a Method for Deepening Critical Thinking Natalie Hakman, Dr. Shane McIver, School of Health and Social Development Faculty of Health, Medicine, Nursing and Behavioural Sciences, Deakin University, Melbourne, Australia <i>Overview:</i> Practical ways to encourage critical thinking and increase student engagement often prove elusive. This study highlights how these and other beneficial outcomes arise when reflective practice is integrated within assessment.</p> <p>What Students Know about Science Chris Impey, Department of Astronomy, Tucson, USA <i>Overview:</i> A systematic study is presented of the basic science knowledge of undergraduates, combined with expectations from scientists and educators, for discussion in workshop format.</p> <p>Localizing the Teaching and Learning of Science Using Students' Mother Language Jualim Vela, Division of Educational Development and Cultural and Regional Studies Graduate School for International Development and Cooperation, Dr. Hideo Ikeda, Graduate School for International Development and Cooperation, Hiroshima University, Higashi-Hiroshima City, Japan <i>Overview:</i> Using the language students are familiar with will aid them in comprehending science concepts and relating them to real life situations.</p> <p>Deconstructing Haiti: Science, Superstition, and Seismicity Dr. Ivan Gill, College of Education and Human Development, Dr. Yvelyne Germain-McCarthy, Department of Curriculum and Instruction, University of New Orleans, New Orleans, USA <i>Overview:</i> Two years ago, Haiti was struck by a catastrophic large-magnitude earthquake. Media reports suggested the earthquake was caused by a supernatural pact. How should this be handled in the classroom?</p> <p>Laying the Foundation for Teaching Controversial Science: What Is Science? What Is Not Science? Dr. Joyce Lucas-Clark, Department of Earth Sciences Department of Earth and Environmental Science, City College of San Francisco, California State University East Bay, Fremont, USA <i>Overview:</i> Teaching controversial subjects in science, such as the theory of evolution, requires that the instructor lay a foundation early in the course about the nature of science.</p>
Room 5 ETHICS & APPLIED SCIENCE	<p>Caught in the Cloud: Revisiting Privacy Issues in the Digital Age Shuai Wei, School of Law, City University of Hong Kong, Hong Kong <i>Overview:</i> This article discusses the blurry boundaries of the privacy issue. The limitation of Police Power and E-Discovery, Corporate Social Responsibility, and US Constitution Fifth Amendment protection of will be explored.</p> <p>“Fitter, Happier”: The Alluring Promise of Neuroenhancement Abilash Gopal, Department of Psychiatry, University of California, San Francisco, USA <i>Overview:</i> This paper summarizes the epidemiology of illicit use of neuroenhancement drugs; discusses the ethics of performance enhancement; and delves into the psychological issues related to human enhancement.</p> <p>Heightening Genetic Potential: Ethical Issues in Human-Enhancement for Sport Dr. Curtis Fogel, Department of Interdisciplinary Studies, Lakehead University- Orillia, Canada <i>Overview:</i> This paper discusses various ethical issues related to human enhancement for sport such as performance-enhancing drug use, cognitive training, and corrective surgeries.</p> <p>Social Intelligence Technologies: Menace or Aid? Dr. Peter Géczy, AIST, Tokyo, Dr. Noriaki Izumi, Dr. Koiti Hasida, Dr. Akira Mori, Dr. Koichiro Eto, Dr. Satoshi Hirano, Japan <i>Overview:</i> Interdisciplinary elucidation of social intelligence technology research and issues arising from expanding social orientation of digital environments, sensitivity of findings, and commercial exploitations.</p> <p>Determinants of Child Malnutrition in Empowered Action Group States of India Chandra Mani Pandey, Shambhavi Mishra, Uttam Singh, Department of Biostatistics and Health Informatics, Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow, India <i>Overview:</i> Child malnutrition and associated child mortality is a major issue in developing countries. Identifying its determinants to design an effective health program to achieve Millennium Development Goals is important.</p>

13:40-15:20	PARALLEL SESSION 2 (100 minute Themed Sessions & 60 minute Roundtable Session)
<p>Room 6</p> <p>ROUNDTABLE SESSION: THE ETHICS, POLITICS AND ECONOMICS OF SCIENCE</p> <p><i>*Runs 13:40-14:40</i></p>	<p>Resisting Stratification: Imperialism, War Machines and the Evidence-based Movement Prof. Dave Holmes, School of Nursing Faculty of Health Sciences, University of Ottawa, Ottawa, Canada <i>Overview:</i> The evidence-based movement promotes the idea of using best knowledge to produce best practice, this line of thinking silently enforces specific research designs and worldviews.</p> <p>Integral Ecology and the Pragmatic Method of William James: A Pragmatic Approach to Interiority and Decision Making Dr. Edward Wimberley, Division of Marine and Ecological Sciences, Florida Gulf Coast University, Bonita Springs, USA <i>Overview:</i> Integral ecology provides a cognitive perspective for understanding complex environmental issues that can be improved upon for decision making by additionally applying principles from William James' pragmatic method.</p> <p>Epistemology, Ethics, and Ideology in Space Policy Debates: A Pedagogical Framework Dr. Kamesh Sankaran, Physics Department, Whitworth University, Spokane, USA <i>Overview:</i> Provides a framework for analyzing diverging proposals in space policy debates. Its purpose is to educate scientists and policymakers on underlying epistemological, ethical, and ideological views in space policy proposals.</p> <p>The Impact of Sewage Pollution on the Polychaetes of Al Khumrah, Saudi Arabia Dr. Saleh Al-Farraj, Biology Department, King Saud University, Riyadh, Saudi Arabia <i>Overview:</i> The present contribution is to study the polychaete community structures and their response to a sewage discharge that was carried out in two basins.</p> <p>Does Cyberspace Promote Human Rights and Democracy? Applying Karl Popper's Scientific Method Lior Tabansky, Tel Aviv University, Israel <i>Overview:</i> Despite the common notion, there is no scientific corroboration for claims that cyberspace promotes democratization.</p> <p>Scientific Dishonesty: Is It No Longer a Problem? Agnieszka Anna Switalska, Institute of Philosophy, University of Warsaw, Warsaw, Poland <i>Overview:</i> The aim of the poster is to present and critical discuss the most popular methods of the fight against dishonest scientific practice: academic codes of ethics and peer review.</p> <p>Race and Gender Differences in Assessments of STEM and non-STEM Images Dr. Mark Goodman, Department of Communication, Mississippi State, Shane T. Warren, College of Education, Mississippi State University, Starkville, USA <i>Overview:</i> An image study indicates college students rate images of women differently when that image is associated with either a STEM/non-STEM job. Race and body size are independent variables.</p>
15:20-15:35	BREAK

15:35-16:35	PARALLEL SESSION 3 (60 minute Themed Sessions, 60 minute Workshops & 60 minute Roundtable Session)
Room 1 LGBT HEALTHCARE ISSUES	<p>“Not a Disorder”: Transgender Health and the Shifting Language of WPATH Standards of Care Christoph Hanssmann, Medical Sociology Program School of Nursing, UCSF, Seattle, USA <i>Overview:</i> This talk examines the changing landscape of transgender health through the shifting language and approach of the published Standards of Care that guide clinicians.</p> <p>Arbiters of Health: The Impacts of Medical Discourse on HIV Prevention and Gay Men’s Sexual Health Matthew Numer, School of Health and Human Performance, Dalhousie University, Halifax, Canada <i>Overview:</i> This presentation will examine the effects of medical discourses and HIV prevention on gay men’s sexual health.</p>
Room 2 NANO-TECHNOLOGY	<p>Public Awareness and Public Perception of Nanotechnology in China: Reflections on an Empirical Study in Dalian Prof. Guoyu Wang, Dalian University of Technology, Dr. Li Liu, Department of Philosophy, Dalian University of Technology, Dalian University, Dalian, China <i>Overview:</i> We conducted an empirical investigation of public awareness of nanotechnology in China, and will relate this to the difference between awareness, perception, and understanding of nanotechnology in the cultural context.</p> <p>Driving Nanotechnology in the Netherlands: Shaping the Dutch Government’s Approach to Nanotechnology Johannes Eijmberts, Political Science Department, Northeastern University, Boston, USA <i>Overview:</i> Which drivers shape the Dutch government’s approach to nanotechnology, which carry more weight, and why? This study uses the United States as a benchmark for comparison.</p>
Room 3 KNOWLEDGE SYSTEMS OF SCIENCE	<p>Social Sciences and Natural Sciences: The Evolution of a Reunification Dr. Iliana Hernandez-Garcia, Technologies, Sciences and Arts Research Group Aesthetics Department, Pontificia Universidad Javeriana, Bogota, Colombia <i>Overview:</i> How have social sciences emerged in relation or distinction with classical Newtonian science, and in what relation with philosophy, humanities, and the arts?</p> <p>An Interdisciplinary Perspective on Nanosciences and Nanotechnologies MSc Mitzi Hass Wakamatsu, Nanosciences and Advanced Materials, Federal University of ABC, Santo Andre, Prof Dr Rafael Salomao, Engineering Department, University of Sao Paulo, Sao Carlos, Brazil <i>Overview:</i> This paper discusses interdisciplinarity issues in nanosciences and nanotechnologies.</p>
Room 4 WORKSHOP	<p>Says Who? We Do, Shubin, Costa, Gardner and Anderson: Science from Biology, Problem Solving, Hardwiring, and Fiction Revealed Mic Denfeld, Arts, Communication and Humanities Division, Pima Community College West Campus, Tucson, USA <i>Overview:</i> Four groups will each discuss a work by one the four authors. Concise information will be given in handouts and conclusions will be presented and integrated by the groups.</p>
Room 5 WORKSHOP	<p>Ask College Students about Inquiry-based Learning in Science Dr. Suzanne W. Gollery, Department of Science and Technology, Sierra Nevada College, Incline Village, USA <i>Overview:</i> An undergraduate science student panel takes audience questions about the effectiveness of inquiry- and lecture-based learning with respect to content knowledge, problem solving, scientific thinking, and instruction that works.</p>

15:35-16:35	PARALLEL SESSION 3 (60 minute Themed Sessions, 60 minute Workshops & 60 minute Roundtable Session)
Room 6 ROUNDTABLE SESSION: SCIENCE PEDAGOGY: 1	<p>Science Clubs in Mexico: Experiences in Student-Organized Science Workshops Adrian Jinich, Department of Systems Biology, Harvard University, Cambridge, USA, Benjamin Sanchez Lengeling, Molecular Science Institute, University of Valencia, Valencia, Spain, Thomas Sanchez Lengeling, Computer Engineering Department, University of Guanajuato, Guanajuato, Mexico <i>Overview:</i> We present our experiences organizing free science workshops in Mexico aimed at a general public.</p> <p>Teaching Controversial Science: Where Values and Science Converge Jill Manske, Department of Biology, University of St. Thomas, Saint Paul, USA <i>Overview:</i> This roundtable discussion explores the role of educators in supporting students as they negotiate controversial topics, and evaluates the role of the students' values on interpretation of scientific concepts.</p> <p>Teaching Biochemistry in Pyongyang, North Korea Dr. Pamela Bryant, Department of Physical Sciences School of Math and Science, Howard Payne University, Brownwood, USA <i>Overview:</i> A critical reflection on teaching biochemistry as a visiting professor in Pyongyang, North Korea</p> <p>The Influence of Socio-demographic Factors on the Environmental Education Awareness of First Year Students at the Cape Peninsula University of Technology, Faculty of Applied Sciences, Cape Town, South Africa Olutoyosi Olaide Ayeni, Department of Environmental and Occupational Studies, Cape Peninsula University of Technology, Cape Town, South Africa <i>Overview:</i> Sustainability is greatest challenge faced by civilization. Promotion of pro-environmental behaviors is vital. Environmental education awareness about sustainable use of resources is key to unlock maximum potential from the environment.</p> <p>Are Your Reasons Economic, Political, Personal, or Scientific? A Case Study Exploring College Students' Pre-existing Beliefs about Science Stephanie Mari, Fremont, Dr. Ana Jofre, University of North Carolina at Charlotte, USA <i>Overview:</i> This paper uses data from classroom assignments to examine college students' attitudes toward science, emphasizing the scientific and non-scientific reasoning used to form opinions about taking action on climate change.</p>
16:40-17:40	RECEPTION

Friday, 16 November	
8:15	REGISTRATION DESK OPEN
9:00-9:30	PLENARY SESSION: Paul Lombardo & Kayte Spector-Bagdady , <i>Presidential Commission for the Study for Bioethical Issues, USA</i> ; 'Ethically Impossible'
9:35-10:05	BREAK & GARDEN SESSION
10:10-11:10	PARALLEL SESSION 4 (60 minute Themed Sessions & 60 minute Workshops)
Room 1 WORKSHOP	Teaching about Science and Society in the College Classroom Dr. Edward Prather, Dr. Colin Wallace , Steward Observatory, Johanna Teske , Center for Astronomy Education, Steward Observatory, University of Arizona, Tucson, USA <i>Overview:</i> We will initiate a conversation and debate about what we, as college instructors, are/are not doing to promote and study students' understandings of the role science plays in society. <i>Stream: Science Pedagogy</i>
Room 2 WORKSHOP	Lessons Learned from a University Whistleblower: Ethics and Consequences Amy Block Joy , Dean's Office College of Agricultural & Environmental Sciences, University of California, Davis, USA <i>Overview:</i> This workshop will present, discuss and explore the ethics and consequences of exposing wrong-doing using a university whistleblower case study. <i>Stream: Science Ethics</i>
Room 3 TESTING ON ANIMALS	Americans' Attitudes toward Animal Testing from 2001 to 2011 Justin Goodman , Laboratory Investigations Department, People for the Ethical Treatment of Animals, Washington, Dr. Casey Borch , Department of Sociology, University of Alabama, Birmingham, Dr. Elizabeth Cherry , Department of Sociology and Anthropology, Manhattanville College, Purchase, USA <i>Overview:</i> This paper discusses changes in the American public's attitude toward medical testing on animals from 2001 to 2011. A Comprehensive Evaluation of Factors Relevant to Ethical Considerations Regarding the Use of Animals in Research: A Principled Approach Dr. Hope Ferdowsian , Department of Medicine, The George Washington University, Washington, USA <i>Overview:</i> We describe a project, funded by the National Science Foundation, establishing an investigative series and open, methodical, ethical evaluation of questions concerning the use of animals in research.
Room 4 GLOBAL HEALTH	Revising the Diagnostic Criteria for Alzheimer's Disease: The Use of Biomarkers and Attendant Ethical Implications Antoine Leuzy , Alzheimer's Disease Research Unit, McGill Centre for Studies in Aging, Montreal, Canada <i>Overview:</i> The new diagnostic criteria for Alzheimer's disease raise important ethical issues, notably in the area of preclinical diagnosis. An Appraisal of Community Effects on Indian Rural Public Health: A Multilevel Analysis Prof Sada Nand Dwivedi , Department of Biostatistics, All India Institute of Medical Sciences, New Delhi, Dr Alok Dwivedi, Dr Shahina Begum, Prof Arvind Pandey , New Delhi, India <i>Overview:</i> Incorporating multilevel structure of public health data, multilevel analysis of rural Indian data will be discussed. Accordingly, only relevant covariates may emerge as significant leading to appropriate public health implications.
Room 5 MATHEMATICS	Pedagogical Games: A Historic Survey of Pedagogical Mathematical Games Prof Jorge Nuno Silva , Department of History and Philosophy of Science, Lisbon, Dra Anabela Teixeira , National Museum of Natural History and Science, Institute of Education,, University of Lisbon, Portugal <i>Overview:</i> We will describe the main pedagogical games, used since the eleventh century, that helped in the teaching of this subject. Integration of the Old Testament and Mathematics Dali Luo , Cedarville University, Cedarville, USA <i>Overview:</i> Through a couple examples, we will show that mathematics can help us be sensitive towards the importance of certain Old Testament sayings.
11:10-11:20	BREAK

11:20-12:35	PARALLEL SESSION 5 (75 minute Themed Sessions & 60 minute Workshops)
Room 1 EDUCATIONAL ROLE OF SCIENCE	<p>El Sabor de las Matematicas Mercedes Siles Molina, Universidad de Malaga, Spain <i>Overview:</i> Arte, Matematicas y Alta Cocina seran los involucre involucre de la charla.</p> <p>A Divulgacao Cientifica para Crianças: Negociacoes de sentido entre divulgador e leitor Dra Maria Eduarda Giering, Universidade do Vale do Rio dos Sinos – UNISINOS, Novo Hamburgo, Rio Grande do Sul, Brazil <i>Overview:</i> Propõe-se apresentar, num corpus de revistas de divulgação científica dirigidas a crianças, estratégias do divulgador para negociar com o nvolu leitor nvolu-juvenil a substituição do conhecimento leigo pelo especializado.</p> <p>“La Feria de las Matematicas”, como estrategia fortalecedora de las operaciones involucre Is en los nvoluc de nvolu grado de educacion primaria Dr Moises Martinez Zavala, Escuela Primaria Plácido Valenzuela Aragón, Secretaría de Educación Pública, Mexicali, Baja California, Mexico <i>Overview:</i> Con la aplicacion de la feria de las matematicas, se involucre a los padres de familia con sus hijos, mediante la aplicacion de actividades ludicas que fortalezcan su aprendizaje matematico</p>
Room 2 ISSUES IN HEALTHCARE	<p>Feminists Who Do: Bridging Insight to Practice in Comprehensive Women’s Health Care Dr. Jamie P. Ross, Women, Gender & Sexuality Studies, University Studies, Portland State University, Portland, USA <i>Overview:</i> I describe differing feminist methodologies in medical evidence-based practice. I use examples from community-based research from Oregon, to link positive feminist health outcomes to feminist legislative policy.</p> <p>Evaluation of Maternity Care Intervention in Rural Nepal: Can a Health Promotion Exercise Improve Knowledge, Attitudes, and Behaviours with Regard to Maternal Health and Service Uptake? Sheetal Sharma, Centre for Midwifery, Maternal & Perinatal Health School of Health & Social Care, Bournemouth University, Bournemouth, UK <i>Overview:</i> This research compares the effectiveness of a health promotion strategy, versus the existing level of health promotion in the control group, given to mothers in a developing country community setting.</p> <p>Addressing Health Disparities through Cultural and Linguistic Competency Training Maria Avila, Interdisciplinary Leadership Education for Health Professionals Pediatrics College of Medicine, Dr. Jean E. Beatson, Interdisciplinary Leadership Education for Health Professionals College of Medicine, University of Vermont, Burlington, USA <i>Overview:</i> This paper introduces the findings of cultural and linguistic competency trainings designed to address racism and health disparities in health and mental health care settings.</p>
Room 3 CLIMATE & ENVIRONMENTAL SCIENCES	<p>Analysis of Global Warming Controversy: The Trojan Horse of Modernity? Prof. Scotto d’Apollonia Lionel, Departement of Sociology CRI – IRSA, University Paul Valery Montpellier 3, Montpellier, France <i>Overview:</i> This paper presents results of a socio-epistemic analysis of the global warming controversy, and asks a question about the relationship between global warming and modernity.</p> <p>STS Student Learning Model: A Practical Approach to Identifying Environmental Problems and Solutions Jiyoon Yoon, Curriculum and Instruction, University of Texas Arlington, Yekang Ko, School of Urban & Public Affairs, University of Texas, Arlington, USA <i>Overview:</i> This paper presents a study of the effects of the Science, Technology, and Society Student Learning Model on the identification of environmental problems and solutions.</p>

11:20-12:35	PARALLEL SESSION 5 (75 minute Themed Sessions & 60 minute Workshops)
Room 4 STEM EDUCATION	<p>Influence of the Young Engineers and Scientists Program for Underrepresented Minority High School Students on Their Knowledge and Career Aspirations in STEM Fields Dr. Constance Hargrave, Science Bound Department of Curriculum and Instruction, Mari Kemis, Dr. Karri Haen, Research Institute for Studies in Education NSF Engineering Research Center for Biorenewable Chemicals, Dr. Adah Leshem, The NSF Engineering Research Center for Biorenewable Chemicals, Iowa State University, Ames, USA <i>Overview:</i> A case study of how the Young Engineers and Scientists Program influences underrepresented minority students' STEM knowledge and career aspirations</p> <p>Integrating Ethics and Public Policy in Step with STEM Education Dr. James Giordano, Misti Ault Anderson, Academic Programs, Potomac Institute for Policy Studies, Arlington, USA <i>Overview:</i> We propose an educational paradigm integrating ethics and public policy into STEM education to prepare the next generation of scientists for the societal challenges that will accompany frontier innovations.</p> <p>Putting Young People on the Right Track in the STEM Pipeline: Informal Eductaion in STEM Prof. Pooran Wynczyk, Small Enterprise Research Unit, Newcastle University Business School, Newcastle upon Tyne, UK <i>Overview:</i> This paper investigates the impact of the participation in informal education (with a focus on the Formula One in Schools Technology Challenge) on greater take up of formal STEM education.</p>
Room 5 SCIENCE AND POLITICS	<p>The Politicization of Natural Science and the Scientists: Problem and Remedy Dr. Borys Myroslaw Kowalsky, Tiny, Canada <i>Overview:</i> The paper seeks above all (a) to give an account of the politicization of natural science and the scientist; and (b) to illuminate the political responsibility of the natural scientist.</p> <p>The Role of Science Unions in Australian Society: Organizing Science and Scientists for Society Dr Michael Borgas, Marine and Atmospheric Research Division Commonwealth Scientific and Industrial Research Organisation, Mr Sam Popovski, CSIRO Staff Association, Community and Public Sector Union, Melbourne, Australia <i>Overview:</i> Unions are effective at engaging science with society, politicians and the media. In Australia the CSIRO Staff Association actively protects the integrity and social functions of science.</p> <p>Innovation Success Factors: A Case Study in Latvia Ilona Dubra, JSC Luxhouse, University of Latvia, Riga, Latvia <i>Overview:</i> This research investigated and summarized human capital, state policy, R&D, cooperation with external environment, innovation oriented organizational culture, and market orientation impact on innovation in Latvia.</p>
12:35-13:30	LUNCH

13:30-14:30	PARALLEL SESSION 6 (60 minute Themed Sessions, 60 minute Workshops & 60 minute Roundtables)
Room 1 WORKSHOP	Translating Science into Common Language: SENCER and the Dual Poster Concept Cynthia Maguire , Department of Chemistry and Biochemistry, Denton, LeAnne Shepard , Psychology, Amanda Nicole Wallis , Interdisciplinary Studies, Texas Woman's University, USA <i>Overview:</i> Scientists do important work that could impact others, but have difficulty communicating outside their discipline. By reducing jargon used to describe complex research, scientists can better communicate to general audiences.
Room 2 WORKSHOP	Thinking the Sinking or Sinking the Thinking? Debating the Science and Politics of the Cheonan Incident Prof Seung-Hun Lee , Department of Physics, University of Virginia, Charlottesville, Prof Jae-Jung Suh , The Paul H. Nitze School of Advanced International Studies, Johns Hopkins University, Washington, USA <i>Overview:</i> The purpose of this roundtable is to understand the politics of science related to the sinking of Cheonan and security dilemmas faced by the two Koreas and the neighboring states.
Room 3 INDIGENIOUS KNOWLEDGE SYSTEMS	The Red Star (Anpetu Luta), The Women's Star (I'kwe Anung) and Venus: Lakota, Ojibwe, and other Indigenous Star Knowledge Prof. Annette S. Lee , St. Cloud State University, St. Cloud, USA <i>Overview:</i> The Native Skywatchers Project gathers native star knowledge (particularly Ojibwe and Lakota) by interviewing elders. Then returns the star knowledge to the people through workshops, curriculum development and other outreach. The Environmental Practices of Eva Aetas: Adaptation Amidst Degradation Chona Camille Vince Cruz , Biology Department College of Science, De La Salle University, Quezon City, Philippines, Ryanorlie Abeledo , iACADEMY, Phillipines <i>Overview:</i> This is a description of the indigenous environmental practices of a group of Aetas in a degraded upland environment, and the relevant policies that apply to them.
Room 4 WORKSHOP	The McGill Office for Science and Society: The Many Ways to Bring Science to Society Dr Ariel Fenster , Dr Joe Schwarcz , McGill University, Montreal, Canada <i>Overview:</i> Innovative methods developed by the McGill Office for Science and Society allow it to bring science to more than half a million people a year in every walk of society.
Room 5 PSYCHOLOGY	The Experience of College Students with Antidepressants Dr Pamela Aselton , Department of Nursing, Saint Joseph College, West Hartford, USA <i>Overview:</i> An online interview of college students using a qualitative approach will be presented regarding their lived experiences with being treated for depression. Healing without Cure: Mapping Pathways to Improve Quality of Life for the Grieving and the Bereaved Dr. Shane McIver , School of Health and Social Development Faculty of Health, Deakin University, Dr. Michelle Gold , Palliative Care, Alfred Hospital, Natalie Hakman , School of Health and Social Development Faculty of Health, Deakin University, Melbourne, Australia <i>Overview:</i> Beliefs about death and dying can make end of life experiences bewildering and distressing. Drawing on interview data from palliative care staff, this paper discusses pathways for improving clinical practice.

13:30-14:30	PARALLEL SESSION 6 (60 minute Themed Sessions, 60 minute Workshops & 60 minute Roundtables)
Room 6 ROUNDTABLE SESSION SCIENCE PEDAGOGY 2	<p>A Midsummer Night's Dream: Ciencia Viva Summer Science Dr. Carlos Catalão Alves, Ciencia Viva – National Agency for Scientific and Technological Culture, Lisbon, Portugal <i>Overview:</i> Engaging the public with science is often best done by taking it to where people are; the Portuguese beach in the summer is a great place to start</p> <p>Eighty Seven Years after Scopes: Look at Pre-service Teachers' Attitudes about Teaching Evolution and Creation Dr. Patricia Hewitt, Educational Studies, The University of Tennessee at Martin, Martin, USA <i>Overview:</i> This paper looks at the attitudes of pre-service teachers and the teaching of evolution and/or creation.</p> <p>Science, Society and Sustainability: A Certificate Program Dr. Richard D. Sheardy, Department of Chemistry and Biochemistry, Texas Woman's University, Denton, USA <i>Overview:</i> This presentation will describe a transdisciplinary academic certificate focusing on sustainability from different points of views: scientific, sociopolitical and economic.</p> <p>Poison Gas, Gunpowder, and 9/11: An Introduction to Global Science, Technology, and Society Donald Salisbury, Global Science, Technology, and Society Program Department of Physics, Dan Nuckols, Global Science, Technology and Society Program Department of Economics, Carol Daeley, Department of English, Austin College, Sherman, USA <i>Overview:</i> This is an overview and preliminary evaluation of the only required course in a new minor in Global Science, Technology, and Society at Austin College.</p> <p>An "Open-campus Museum" for Sharing Science with the Public Prof. Jeff Camhi, Institute of Life Sciences, Jerusalem, Dr. Jeff Dodick, Science Teaching Center, Hebrew University of Jerusalem, Dina Tsybulskaya, Center for Science Teaching, Hebrew University of Jerusalem, Israel <i>Overview:</i> The "open-campus museum" at the Hebrew University shares science with the public. Rigorously trained student guides lead fifteen different subject-oriented programs, which produce significant cognitive and affective impact.</p> <p>Birth in Four Fields: An Interdisciplinary Investigation of Childbirth Support Alexandra Holloway, University of California, Santa Cruz, Santa Cruz, Dr. Jenna Shaw-Battista, University of California, San Francisco, San Francisco, Dr. Megan Moodie, Anthropology Department Social Science Division, Dr. Sri Kurniawan, University of California, Santa Cruz, Santa Cruz, USA <i>Overview:</i> An anthropologist, nurse-midwife, computer engineer, and computer scientist present similarities and differences in data acquisition and analysis techniques for interviewing birth partners about attitudes, goals, and preparation for childbirth support.</p>
14:30-14:40	BREAK

14:40-15:55	PARALLEL SESSION 7 (75 minute Themed Sessions & 60 minute Roundtables)
Room 1 WOMEN & GENDER ISSUES	<p>Motherhood Educations: Expert Knowledge in the Reconstitution of the ‘Proper’ Sevi Bayraktar, Sociology Department, Boğaziçi University, Istanbul, Turkey <i>Overview:</i> This study concerns how expert knowledge operates through the reconstitution of the subjectivities of women as ‘good/proper’ mothers in the field of mothering educations given by the state institutions.</p> <p>Social Systematic Biases in Science: A Gender Perspective Nirupama Prakash, Department of Humanities and Social Sciences Centre for Women Studies, Jaypee University of Information Technology, Wanknaghat-Solan, India <i>Overview:</i> This paper highlights social issues related to women in science and technology education and careers in urban and rural settings.</p> <p>Technologies of Hope? Men’s Perceptions of Endometriosis and Its Treatment Prof. Lorraine Culley, Leicester, Dr. Nicky Hudson, Caroline Law, Applied Social Sciences, De Montfort University, UK <i>Overview:</i> This paper explores how male partners of women living with the chronic disease of endometriosis frame this gendered condition and the available technologies of treatment.</p>
Room 2 EDUCATION	<p>Chemistry in Nursing or Nursing in Chemistry Corina E. Brown, Department of Chemistry and Biochemistry, Richard M. Hyslop, PhD, Department of Chemistry and Biochemistry, University of Northern Colorado, Greeley, USA <i>Overview:</i> The current study focuses on general, organic, and biological chemistry, a course typical of the chemistry courses required by Bachelor of Science in Nursing programs.</p> <p>Science for Non-Scientists: Creating an Active Learning Lecture and Laboratory Classroom for Integrative Science Courses Dr. L. Kraig Steffen, Department of Chemistry and Biochemistry, Dr. Kathy Nantz, Department of Economics, Fairfield University, Fairfield, USA <i>Overview:</i> Through a collaborative process faculty at Fairfield University developed and designed the Resource Center for Core Science, an interactive classroom space which encourages active learning.</p> <p>Crossing the Borders: Multidiscipline Research Dr. Philip Breedon, School of Architecture, Design & the Built Environment, Leslie Arthur, School of Architecture, Design and the Built Environment, Nottingham Trent University, Nottingham, UK <i>Overview:</i> A suite of new programmes at Nottingham Trent University were designed to support and advocate the use of SMART technologies and materials combining sciences and the arts.</p>
Room 3 SCIENCE IN SOCIETY:2	<p>Biometrically Adaptive Consumer Packaging: The Effects of Mood Relative to a Consumer’s Purchasing Decisions Daniel Edward Hutcherson, Dr. Rupert Andrew Hurley, Sonoco Institute of Packaging Design and Graphics, Clemson University, Clemson, USA <i>Overview:</i> Alternative methods of packaging are researched to represent the interactions between consumers and packaging in retail environments. Consumer biometrics determines if a person’s mood has an effect on purchasing decisions.</p> <p>Killer Instinct: Societal Views of the Africanized Honeybee Assoc. Prof. Andrew Howe, Department of History, Politics, & Society, La Sierra University, Riverside, USA <i>Overview:</i> An examination of the rhetorical framing of the Africanized Honeybee threat to the United States during the late 1970s, including linkages to societal perceptions of warfare and illegal immigration.</p> <p>Societal Impacts of Science in Space: Past, Present, and Future Todd May, Space Launch System Program, NASA, Huntsville, USA <i>Overview:</i> NASA science and exploration initiatives have positively affected society in a number of ways by providing a platform for advancing general and specific knowledge across a range of disciplines.</p>

14:40-15:55	PARALLEL SESSION 7 (75 minute Themed Sessions & 60 minute Roundtables)
Room 4 PROFESSIONAL ETHICS	<p>A Corporate Identity of Research Centres and Institutions Ivo Svejksky, Division of External Relations, CAO Academy of Sciences of the Czech Republic, Prague, Czech Republic <i>Overview:</i> The purpose of this paper is to propose a model of corporate identity for research institutions to increase their local and also global competitiveness.</p> <p>Ethical Perspectives on Geoengineering: A Narrative Approach Paula Curvelo, Dr. Ângela Guimarães Pereira, Joint Research Centre, European Commission, Ispra, Italy <i>Overview:</i> In this paper we present the main results of an ongoing research project that uses a narrative approach for handling the ethical dilemmas surrounding climate geoengineering proposals.</p> <p>The Industrial-ThinkTank-Media Complex: How a Rhetorical Community Used a ‘Sceptic’ Book to Delegitimize Climate Science and Derail Emissions Trading in Australia Elaine McKewon, School of Journalism, University of Technology, Sydney, Sydney, Australia <i>Overview:</i> This paper presents the results of a news source analysis and a narrative analysis of Australian newspaper coverage of a best-selling book that rejects the evidence of anthropogenic climate change.</p>
Room 5 ENVIRONMENTAL ISSUES	<p>Deployment, Tracking and Data Management: Technology and Science for a Global Ocean Tracking Network Prof. Richard Apostle, Dr. Tsafirir Gazit, Department of Sociology and Social Anthropology, Robert Branton, Ocean Tracking Network, Dalhousie University, Halifax, Canada <i>Overview:</i> This explores the Ocean Tracking Network data structure and governance, and its impact on knowledge flow, the scientific community, and other interest groups that can benefit from such knowledge.</p> <p>Water Technology and Food Security for a Burgeoning Society: Collaboration between Science and Social Science to Analyze What Works Dr. Jenny Rebecca Kehl, Center for Water Policy School of Freshwater Sciences (UW-Milwaukee) Department of Public Policy (Rutgers University), Rutgers University, Camden, USA <i>Overview:</i> The purpose of this paper is to present the newest strategies, technologies, and innovations that have demonstrated success in addressing water scarcity and food insecurity.</p>

14:40-15:55	PARALLEL SESSION 7 (75 minute Themed Sessions & 60 minute Roundtables)
Plenary Theater ROUNDTABLE SESSION SCIENCE ETHICS & PHILOSOPHY <i>*Runs 14:40-15:40</i>	<p>The Philosopher's Stone: Quantum Leaps in Chemistry by William C. Davis and Rosalyn Yalow Dr. Jeanette N. Passty, Department of English, St. Philip's College, San Antonio, USA <i>Overview:</i> William C. Davis is credited with discoveries leading to or improving numerous processed foods and other modern amenities. As a post-doctoral fellow he learned Radioimmunoassay from Nobel Laureate Rosalyn Yalow.</p> <p>From the Sky to the Stage: Galileo in the Theatre Octavia Cade, Department of Science Communication, University of Otago, Dunedin, New Zealand <i>Overview:</i> Galileo plays typically combine the scientific with the political, the historic with the contemporary, in order to engage the audience in ethical debates on the place of science in society.</p> <p>The Impact of Science on Culture: A Mathematical and Philosophical Inquiry Dr. Binoy Jacob, Department of Systematic Theology Jesuit School of Theology, Santa Clara University, Berkeley, USA <i>Overview:</i> The paper aims at retrieving meaning and values in the contemporary culture through a renewed analysis and appreciation of the limitations of natural sciences with reference to Gödel's incompleteness theorem.</p> <p>Low Income Minority's Knowledge of Grilling and Barbecuing Meat: Heterocyclic Amines, Polycyclic Aromatic Hydrocarbons, Cancer, and Lower Birth Weight Henry Comer, University of Cincinnati, Ohio State University, DECLARE Therapy Center, London, Dr. Purcell Taylor, University of Cincinnati, Cincinnati, Shanti Malladi, San Francisco, Tianna Chow, Cupertino, Causenge Cangin, NKU Faculty, Covington, USA <i>Overview:</i> This discusses low income minority's knowledge of grilling and barbecuing meat, and heterocyclic amines, polycyclic aromatic hydrocarbons, cancer, and lower birth weights.</p>
15:55-16:05	BREAK

16:05-17:05	PARALLEL SESSION 8 (60 minute Themed Sessions & Workshops)
Room 1 SCIENCE HISTORIES	<p>Obesity in Historical Perspective: The Science, Business, and Politics of Weight Loss in America, 1850 - 1960 Dr. Heather Parker, Social Sciences, Saint Leo University, Saint Leo, USA <i>Overview:</i> This examines nineteenth and twentieth century perceptions of obesity and the scientific and medical communities' efforts to educate the government and the public about health risks related to obesity.</p> <p>Recovering the Sky: The Cosmos in Western Culture Prof Robert David Joseph, Institute for Astronomy, University of Hawaii at Manoa, Honolulu, USA <i>Overview:</i> I trace the loss of a connection between astronomy and culture in the Renaissance, and show how this connection has been regained in modern astronomy.</p>
Room 2 WORKSHOP	<p>Mall as Living Lab: Creating Enabling Environments for Persons with Disabilities Dr. Eva Kehayia, School of Physical and Occupational Therapy, McGill University/Centre for Interdisciplinary Research in Rehabilitation of Greater Montreal, Dr. Tiiu Poldma, School of Interior Design, University of Montreal, Montreal, Dr. Michel Desjardins, Department of Psychology, University of Saskatchewan, Canada <i>Overview:</i> We are transforming an urban shopping mall into a living lab and an inclusive environment for persons of all ages, especially for those with physical, sensory and cognitive disabilities.</p>
Room 3 HEALTH IN SOCIETY	<p>The Importance to Society of Embracing Counterintuitive Thought in Science: Assisted Exercise in Preterm Infants for Long-term Healthy Outcomes Dr. Ellen Olshansky, Program in Nursing Science, Jessica Vaughan, Department of Pediatrics Institute for Clinical Translational Science, University of California, Kelsi Sando, Department of Pediatrics, Institute for Clinical Translational Science, University of California, Julia Rich, Department of Pediatrics School of Medicine, Dr. Kimberley Lakes, Department of Pediatrics School of Medicine Institute for Clinical Translational Research, Dr. Daniel Cooper, Department of Pediatrics School of Medicine Principal Investigator of the Institute for Clinical Translational Research Principal Investigator, Assisted Exercise in Preterm Infants: New Approaches, University of California, Irvine, USA <i>Overview:</i> Challenging prevailing views through science leads to societal progress. Increasing energy expenditure in preterm infants, counterintuitive to prevailing views, is hypothesized to affect body composition, preventing obesity and associated diseases.</p> <p>Cancer Assessments in Hinkley: Are We learning What We Need and Using What We Know? Prof. John W. Morgan, Department of Epidemiology, Biostatistics, and Population Medicine School of Public Health, Loma Linda University, Loma Linda, USA <i>Overview:</i> Assessments in Hinkley failed to identify an etiologic cancer excess, although they revealed delayed diagnosis of screen detectable cancers that have been largely ignored.</p>
Room 4 WORKSHOP	<p>Finding Our Place within the Emerging Societal Paradigm Shift Dr. William H. Kautz, Center for Applied Intuition, Tucson, USA <i>Overview:</i> Scientists and social scientists have a vital stake in the major changes now taking place in science, and their impact upon the current societal paradigm.</p>
Room 5 PUBLISHING SESSION *Runs 16:05 – 16:35	<p>Publishing Information Session Jamie Burns, <i>Managing Editor, Journals, Common Ground Publishing</i> <i>Overview:</i> In this session the <i>Managing Editor</i> of <i>The International Journal of Science in Society</i> and <i>The Science in Society: A Book Series</i> will present an overview of Common Ground's publishing philosophy and practices. She will also offer tips for turning conference papers into journal articles, present an overview of journal publishing procedures, introduce <i>The Science in Society: A Book Series</i>, and provide information on Common Ground's book proposal submission process. Please feel free to bring questions—the second half of the session will be devoted to Q & A.</p>
18:30 -20:30	Conference Dinner: Le Bateau Ivre, *Pre-registration Required

Saturday, 17 November	
8:30	REGISTRATION DESK OPEN
9:00-9:30	PLENARY SESSION: Bernard Sinclair-Desgagné, HEC Montreal, Canada <i>'Science-Based Policy when Scientists Disagree'</i>
9:35-10:15	BREAK WITH BREAKFAST BUFFET & GARDEN SESSION
10:20-11:35	PARALLEL SESSION 9 (75 minute Themed Sessions)
Plenary Theater PUBLISHING SESSION *Runs 10:20-10:50	Publishing Information Session Jamie Burns, Managing Editor, Journals, Common Ground Publishing <i>Overview: In this session the Managing Editor of The International Journal of Science in Society and The Science in Society: A Book Series will present an overview of Common Ground's publishing philosophy and practices. She will also offer tips for turning conference papers into journal articles, present an overview of journal publishing procedures, introduce The Science in Society: A Book Series, and provide information on Common Ground's book proposal submission process. Please feel free to bring questions—the second half of the session will be devoted to Q & A.</i>
Room 1 ALTERNATIVE METHOD	A Call for More Comprehensive, Systematic, and In-depth Investigation of the Health Benefits of Taiji and Qigong Dr. Don Tow, Brookdale Community College, Middletown, USA <i>Overview: Recent medical research results showing health benefits of Taiji and Qigong lead to profound questions on the scientific basis of Taiji and Qigong and their impacts on healthcare.</i> Science-Pseudoscience Debate and Its Implications on Biomedical Research Ethics Dr Kiarash Aramesh, Medical Ethics and History of Medicine Research Center, Tehran University of Medical Sciences, Tehran, Iran (Islamic Republic of) <i>Overview: An exploration of the meanings of science and pseudoscience in the field of medicine and its implications on biomedical research ethics; focusing on homeopathy, energy therapy, and humoral medicine.</i> Ayurveda as "National Science" in the Imagination of Modern India Natasha Sarkar, Department of History, National University of Singapore, Singapore, Singapore <i>Overview: Late-nineteenth century India witnessed the clash of colonial Western medicine vis-a-vis indigenous Ayurvedic medicine. The paper examines Ayurvedic revivalism in the event of Western medicine's assumption of scientific authority.</i>
Room 2 SCIENCE FROM A HISTORICAL, POLITICAL & ECONOMIC PERSPECTIVE	Medir el capital intelectual en la UNAM: La ciencia en el Subsistema de la Investigacion Cientifica Dra. Martha Elena Marquez Villegas, Universidad Nacional Autónoma de México <i>Overview: Se plantea que la medición del capital intelectual en universidades proporciona elementos útiles para la comprensión de los sistemas científicos y la orientación de políticas científicas, como en la UNAM-México.</i> La percepcion de la Fisica Nuclear a lo largo de la historia: Desde Hiroshima hasta Fukushima Dr Martin Gascon, Material Science and Engineering, Stanford University, CA, USA <i>Overview: Esta trabajo describe como cambió la percepción de la sociedad sobre la Física Nuclear a lo largo de la historia.</i> Inovacionismo e Dinâmica Inovativa no Brasil Carolina Bagattolli, Dr Renato Dagnino, Universidade Estadual de Campinas, São Paulo, Brazil Overview: Política de Ciência, Tecnologia e Inovação e seus impactos em termos de dinâmica inovativa no Brasil. A Popularizacao da Ciencia na Midia Impressa Brasileira Janaina Pimenta Lemos Becker, Universidade do Vale do Rio dos Sinos (UNISINOS), Brazil <i>Overview: Este trabalho, que apresenta resultados de uma tese de doutorado em desenvolvimento, examina aspectos linguísticos e discursivos que podem indiciar graus de popularização da ciência na mídia.</i>

10:20-11:35	PARALLEL SESSION 9 (75 minute Themed Sessions)
Room 3 ETHICS EDUCATION	<p>Community Engagement Broadens the Vision of Research Myopia Dr Jeff Trahair, University of Adelaide, Adelaide, Australia <i>Overview:</i> Teaching ethics with community engagement enhances learning and development in undergraduate health science students</p> <p>Introducing Undergraduate Researchers to the Ethical Conduct of Science: The Undergraduate Biology Research Program Ethics Retreat Prof. Carol Bender, College of Science, The University of Arizona, Tucson, USA <i>Overview:</i> The Undergraduate Biology Research Program Ethics Retreat provides undergraduate researchers with an introduction to the ethical conduct of science and medicine. Such training is essential for future researchers.</p> <p>Human Activity as Part of the Microbial Ecosystem: An Approach to the Teaching of Biology Steven Kessler, Department of Biological Sciences, City College of San Francisco, San Francisco, USA <i>Overview:</i> Large-scale human activities, such as deforestation and industrial agriculture, profoundly impact the distribution, behavior, and evolution of microorganisms. This presentation will describe ways to reflect this in microbiology education.</p>
Room 4 PERCEPTIONS IN SCIENCE	<p>Understanding Changes in New Zealanders' Perception of Their Environment 2000-2011 Maneerat Suthanthangjai, Faculty of Environment, Society, and Design, Dr Kevin Moore, Department of Social Science, Parks, Recreation, Tourism, and Sport, Dr Gary Steel, Department of Social Science, Parks, Recreation, Tourism and Sport, Prof. Kenneth F.D. Hughey, Department of Social Science, Parks, Recreation, Tourism, and Sport, Lincoln University, Lincoln, New Zealand <i>Overview:</i> Understanding changes in New Zealanders' perception of their environment 2000-2011.</p> <p>Revisiting Writing in the Disciplines: Evaluating the Community College Students' Perspectives of Writing in the Sciences Dr. Liz Ann Báez Aguilar, Department of English, San Antonio College, Alamo Colleges, San Antonio, USA <i>Overview:</i> An evaluation of community college students' perspectives towards writing in first to second year biology, chemistry, and physics courses and recommendations to enhance students' writing skills within the sciences.</p> <p>Understanding Racism through Exploring Neural Binding Circuitry Marc Thomas, Alliance for Social, Political, Ethical and Cultural Thought, Virginia Polytechnic Institute and State University, Blacksburg, USA <i>Overview:</i> Cognitive science helps explain why racism remains invisible to whites and how this negatively impacts efforts to use policy and programs to increase the number of black students in universities</p>
Room 5 EDUCATIONAL ENGAGEMENT: 2	<p>Genomics in Society: Young People's Views on Whole Genome Screening Dr. Emma Weitkamp, Dr. Dawn Arnold, Department of Applied Sciences, University of the West of England, Bristol, UK <i>Overview:</i> This presentation will explore the impact of an interschool competition that sought to encourage young people to engage with issues relating to whole genome screening.</p> <p>Women Do Not Like Competitive Environments in the Classroom? Group Competitive Exercises Imply Not So! Dr. Kevin C. Cannon, Kathryn Cannon, Department of Chemistry, Penn State Abington College, Abington, Maureen P. Breen, Department of Finance, Drexel University, Philadelphia, USA <i>Overview:</i> Group-competitive exercises combine cooperative learning with a competitive environment. Despite reported gender learning preferences in college classrooms, no significant difference in attitude toward these competitions was measured.</p> <p>Science, Methodology and the Social Context Finney Premkumar, Philosophy, Azusa Pacific University, Pasadena, USA <i>Overview:</i> This paper will explore the nature of scientific discourse in an effort to show that its internal structure is highly institutional and social in nature.</p>
11:40 – 12:10	CONFERENCE CLOSING, GRADUATE SCHOLAR AWARDS & FUTURE DIRECTION