

Sixth International Conference on Climate Change: Impacts & Responses

27 – 28 JUNE 2014 | UNIVERSITY OF ICELAND, REYKJAVÍK | REYKJAVÍK, ICELAND | ON-CLIMATE.COM



INTERNATIONAL CONFERENCE ON CLIMATE CHANGE: IMPACTS AND RESPONSES

UNIVERSITY OF ICELAND, REYKJAVÍK
REYKJAVÍK, ICELAND

27 – 28 JUNE 2014

ON-CLIMATE.COM



International Conference on Climate Change: Impacts and Responses
www.on-climatechange.com

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LETTER FROM CONFERENCE HOST

Dear Climate Change Conference Delegate,

Welcome to the Sixth International Conference on Climate Change: Impacts and Responses. This conference and its associated journal have been created to promote dialogue across diverse fields and multiple perspectives, on the question of climate change. It examines evidence of climate change, considers its impacts, and addresses current and potential responses. Thank you for joining this important dialogue and sharing your enthusiasm, insight and concern.

By way of background, the Inaugural Climate Change Conference was held in Pune, India at Bharati Vidyapeeth University. The 2010 conference was held at the University of Queensland in Brisbane, Australia; the 2011 conference was held in Rio de Janeiro, Brazil; the 2012 conference was held in Seattle, Washington, USA; and the 2013 conference was held in Port Louis, Mauritius. We meet annually in different locations around the world and publish papers from the conference in *The International Journal of Climate Change: Impacts and Responses*.

In addition to organizing the Climate Change Conference, Common Ground publishes papers from the conference at www.Climate-Journal.com, and we do encourage all conference participants to submit a paper based on their conference presentation for peer review and possible publication in the journal. We also publish books at <http://onclimate.com> in both print and electronic formats. We would like to invite conference participants to develop publishing proposals for original works, or for edited collections of papers drawn from the journal which address an identified theme. Finally, please join our online conversation by subscribing to our monthly email newsletter, and subscribe to our Facebook, RSS, or Twitter feeds at <http://on-climate.com>.

Common Ground also organizes conferences and publishes journals in other areas of critical intellectual human concern, including diversity, museums, technology, humanities and the arts, to name several (see <http://commongroundpublishing.com>). Our aim is to create a new form of the knowledge community, where people meet in person and also remain connected virtually, making the most of the potentials for access via digital media. We are also committed to creating a more accessible, open and reliable peer review process. Alongside opportunities for well-known academics, we are creating new publication openings for academics from developing countries, for emerging scholars and for researchers from institutions that have historically focused on teaching.

We are also proud to announce the launch of **Scholar**, created in an association between Common Ground and the University of Illinois. If the social glue that holds together Facebook is 'friends' and the stickiness of Twitter is having 'followers', then the common bond created in **Scholar** is 'peers' working together in knowledge producing communities. We call this a 'social knowledge' space. Not only can you join the Climate Change community in **Scholar**, you can also create your own knowledge communities and use **Scholar** as a learning space, with a strong focus on peer-to-peer dialogue and structured feedback. For more information, visit www.cgscholar.com.

Thank you to everyone who has prepared for this conference. I'd also like to thank my Common Ground colleagues who have put such a significant amount of work into this conference: Homer Stavely and Izabel Szary.

We wish you all the best for this conference, and hope it will provide you every opportunity for dialogue with colleagues from around the corner and around the world. And we hope you will be able to join us at next year's conference in Vancouver, Canada!

Yours Sincerely,



Bill Cope
Director, Common Ground Publishing
Professor, Education Policy, Organization, and Leadership
University of Illinois, Urbana-Champaign, USA





ABOUT COMMON GROUND

Our Mission

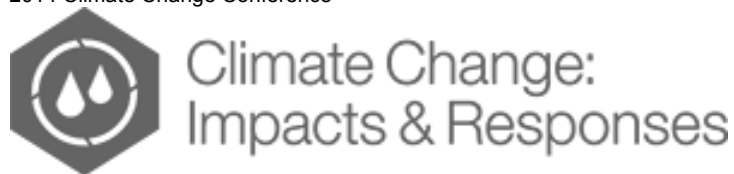
Common Ground Publishing aims to enable all people to participate in creating collaborative knowledge and to share that knowledge with the greater world. Through our academic conferences, peer-reviewed journals and books, and innovative software, we build transformative knowledge communities and provide platforms for meaningful interactions across diverse media.

Our Message

Heritage knowledge systems are characterized by vertical separations—of discipline, professional association, institution, and country. Common Ground identifies some of the pivotal ideas and challenges of our time and builds knowledge communities that cut horizontally across legacy knowledge structures. Sustainability, diversity, learning, the future of the humanities, the nature of interdisciplinarity, the place of the arts in society, technology's connections with knowledge, the changing role of the university—these are deeply important questions of our time which require interdisciplinary thinking, global conversations, and cross-institutional intellectual collaborations. Common Ground is a meeting place for these conversations, shared spaces in which differences can meet and safely connect—differences of perspective, experience, knowledge base, methodology, geographical or cultural origins, and institutional affiliation. We strive to create the places of intellectual interaction and imagination that our future deserves.

Our Media

Common Ground creates and supports knowledge communities through a number of mechanisms and media. Annual conferences are held around the world to connect the global (the international delegates) with the local (academics, practitioners, and community leaders from the host community). Conference sessions include as many ways of speaking as possible to encourage each and every participant to engage, interact, and contribute. The journals and book series offer fully-refereed academic outlets for formalized knowledge, developed through innovative approaches to the processes of submission, peer review, and production. The knowledge community also maintains an online presence—through presentations on our YouTube channel, monthly email newsletters, as well as Facebook and Twitter feeds. And Common Ground's own software, **Scholar**, offers a path-breaking platform for online discussions and networking, as well as for creating, reviewing, and disseminating text and multi-media works.



THE CLIMATE CHANGE KNOWLEDGE COMMUNITY

The Climate Change knowledge community is dedicated to the concept of independent, peer-led groups of scholars, researchers, and practitioners working together to build bodies of academic knowledge related to topics of critical importance to society at large. Focusing on the intersection of academia and social impact, the Climate Change knowledge community brings an interdisciplinary, international perspective to discussions of new developments in the field, including research, practice, policy, and teaching.

Themes

Theme 1: Scientific Evidence

- *Paleoclimatology: the earth's climate in a long view*
- *Climate change today: examining the data*
- *Ice cap reduction and glacial melt*
- *Sea level change*
- *Floods, drought, forest fires, hurricanes and other sporadic events*
- *Albedo or measuring the earth's reflectiveness*
- *Meteorology and climate informatics*
- *Equilibria and disequilibria: change processes and countervailing tendencies*
- *Climate measurement processes, methodologies and technologies*
- *Reading complex, dynamic and unstable systems*
- *Developing local and global climate models*
- *Change scenarios: slow, rapid, abrupt or episodic*

Theme 2: Assessing Impacts in Divergent Ecosystems

- *Ocean currents and el Niño*
- *Riverine ecosystem impacts*
- *Mountain ecosystem impacts*
- *Coastal ecosystem impacts*
- *Marine ecosystem impacts*
- *Forest and grassland ecosystem impacts*
- *Impacts on wilderness and protected areas*
- *Impacts on specific biomes*
- *Impacts on biodiversity, potential extinctions*
- *Hardiness zone migration*
- *Regional variations: temperature and rainfall*

Theme 3: Human Impacts and Impacts on Humans

- *Anthropogenic factors in climate change: determining the relative contribution of natural and human causes*
- *Impacts of carbon dioxide and other greenhouse gases*
- *Land use patterns, agriculture and livestock husbandry and deforestation as factors in climate change*
- *Impacts on humans: agriculture, fish stocks, food supply, health*
- *Human settlements and sea level rise*
- *Impacts on humans: water supply, desertification*
- *Impacts on humans of intense weather events, natural disasters and ecological surprises*
- *Impacts of climate change in the developing world*

Theme 4: Technical, Political and Social Responses

- *Environmental policies in response to climate change*
- *Controversy and denial: politics, the media and scientists with dissenting views*
- *The international politics of climate change*
- *The past, present and future of international agreements*
- *Education and awareness for management of global climate change*
- *Protected areas and preservation of biodiversity: 'corridor' and other strategies*
- *Strategies for sustainability*
- *Human adaptive strategies*
- *Technologies of mitigation: carbon dioxide sequestration, solar shades and other processes*
- *Alternative and renewable energy sources: technologies, policies and strategies*
- *Carbon taxes, offsets and trading*
- *Emission standards*
- *Climate ethics and the precautionary principle*
- *Eco-development, eco-efficiency*

Scope and Concerns

Climate Change: The Evidence

Climate is one of the pivotal and dynamic forces in the natural history of the earth. Paleoclimatology provides us a long view of the ebb and flow of climate change, and a framework within which to interpret its ecosystemic consequences. In some times and places climate change explains processes of biodiversification, in other times and places a reduction in biodiversity. In this long view, the history of life on earth is integrally related to climatological history. For the first time in natural history, the conscious actions of one creature—homo sapiens—have come to influence the course of earth's natural history, not just in local ecosystems, but on a planetary scale. This has been the case since humans began a process of populating the whole earth about one hundred thousand years ago. Ecosystems were revolutionized by the sustained yield harvesting technologies of hunters and gatherers, then the farming and animal husbandry technologies of self-sufficient peasantries, and most recently and most intensively by the global division of labor of the industrial revolution, market-directed agriculture, the widespread clearing and harvesting of forests and the use of fossil fuels. It is now widely accepted that the most recent phase of human society has had an impact on the earth's climate. Greenhouse gases are heating up the earth. Ice that was permanent until recently, is rapidly melting. Sea levels are rising. Extreme weather events are occurring with greater frequency. Different regions are affected by these changes in different ways. Some of the changes we are experiencing today may be part of the course of natural history. Other changes, many scientists agree, are the byproduct of human activity. Key questions include: how do we measure and explain these changes? What are their immediate and likely future impacts? And what is to be done? These are questions of practical concern and growing urgency.

Ecosystemic Impacts

There is today the potential for disastrous impacts on ecosystems, communities, species and genetic diversity that could well lead to mass extinctions in a relatively brief period. For instance, the special effects of glacial melt on mountain and riverine biodiversity and that of sea level rise on coastal and mangrove systems raise concerns for the future of biodiversity. The effect of climate change on coral reefs is already a major concern. Increased rainfall variability (in especially monsoon regions) could dry up or expand wetlands temporarily which in both scenarios would be disastrous. The most affected ecosystems will undoubtedly be situated in mountains, forests (especially evergreen types), grasslands, deserts and wetlands. Glacial, riverine and coastal ecosystems will also be altered. Knowledge currently available by simulating possible changes in Dynamic Global Vegetation models, clearly demonstrates that there will be further species loss. Many species ill-adapted to environmental disturbances may vanish without a trace before scientists can detect decline. The specific regional impacts on biomes and the vulnerabilities of different ecosystems across the globe need to be assessed. There are parallels between some areas, while there are subtle and complex dissimilarities between the changes that are occurring in different parts of the world. These include floods, drought, forest fires, hurricanes and other sporadic events that could devastate endemic species and threaten microhabitats. Some ecosystems could be highly vulnerable and will not be able to respond even to short term impacts such as natural disasters. In the presence of climate change, these short term events could be even more cataclysmic. The possible impacts of invasive alien species that will spread due to climatic change are very little understood and could be devastating. The possibility of 'ecological surprises' in sensitive areas also needs to be addressed. Extreme weather events could be especially damaging. There is thus a great need for scientists and practitioners to be brought on a common platform that will at least reduce the ill effects on species ecosystems and protected areas. The Conference, Journal, Book Imprint and News Blog will share international research based on local experiences, so that mitigation and adaptation to climate change can be understood by scientists, policymakers and practitioners concerned with the management of different ecosystems.

Human Impacts

Humans are agents in climate change due to their production of greenhouse gases and their patterns of land use. Humans will also be affected by climate change in many ways: including shifting shorelines, declining agricultural productivity, crisis of food supply, availability of water, the health of populations and extreme weather events. For instance, environment related diseases could spread rapidly in epidemic proportions with changes in water availability and quality. These impacts will be felt differentially in developed and developing worlds. Marginalized populations of people may not only have their lives and livelihoods affected, but also be affected by declines in species abundance and diversity of ecosystems upon which they are dependent at a landscape level. In heterogeneous landscapes with a mix of wilderness islands within a changing agricultural environment, urbanization and industrial spread could well increase pressures on protected area networks as the effects of climatic changes increase. Agricultural communities, especially traditional farmers and pastoralists, may be forced to shift into what is now within the protected area networks in developing countries.

Framing Responses

This peculiar creature in natural history, homo sapiens, is increasingly being recognized by scientists to be an agent of climate change, though the precise mix of natural and human causes has yet to be determined. With conscious agency lacking in other species, comes a unique species responsibility for the future course of natural history. On the experience of the past one hundred thousand years, humans are clearly capable of adaptive responses. Our species has the capacity or can develop the capacity to nurture nature through a period of transition, for instance by creating corridors to assist species adaptation and inventing new agricultures which alleviate and mitigate the effects of climate change. Humans are also capable of precautionary action, reducing greenhouse gases for instance as part of a broader strategy of sustainable development. We may even be able to master technologies which balance and stabilize climate change. The key, however, will be the extent to which our species can take a proactive role, be that technological or acts of social and political will that produce changed patterns of land and energy use. Like no other creature in natural history, and like no other time in this creature's history, this is moment when the future of the planet is in our hands. The consciousness which made us a unique species perhaps a hundred thousand years ago, for the first time today puts us in a position of unprecedented responsibility for the course of natural history. Climate change is a key intellectual and practical challenge for today's science, economics, politics, sociology and ethics.

Community Membership

Annual membership to the Climate Change community is included in your conference registration. As a community member, you have access to a broad range of tools and resources to use in your own work: electronic access to the full journal and book collections; a full **Scholar** account, offering an innovative online space for collaborative learning in your classes or for broader collaborative interaction with colleagues (within a research project or across the globe); and annual conferences where you can present your work and engage in extensive interactions with others with similar interests who also bring different perspectives. And you can contribute to the development and formalization of the ideas and works of others—as a journal or book reviewer, as a conference participant, and as a contributor to the newsletters and community dialogue. Membership benefits include:

- Personal electronic subscription to the journal for one year after the conference (all past and current issues).
- Personal electronic subscription to the book series for one year after the conference.
- One article submission per year for peer review and possible publication in any of the journals in the collection.
- Participation as a reviewer in the peer review process and the potential to be listed as an Associate Editor of the journal after reviewing three or more articles.
- Subscription to the monthly community email newsletter, containing news and information for and from the knowledge community.
- Ability to add a video presentation to the community YouTube channel, whether or not it was presented in person at the conference or is published in the journal.
- Access to the **Scholar** "social knowledge" platform: free use of **Scholar** as your personal profile and publication portfolio page, as a place to interact with peers and forms communities that avoids the clutter and commercialism of other social media, with optional feeds to Facebook and Twitter.
- Use **Scholar** in your classes—for class interactions in its Community space, multimodal student writing in its Creator space, and managing student peer review, assessment, and sharing of published students' works in its Publisher space.

Engaging in the Community

Present and Participate in the Conference

You have already begun your engagement in the community by attending the conference, presenting your work, and interacting face-to-face with other members. We hope this experience provides a valuable source of feedback for your current work and the possible seeds for future individual and collaborative projects, as well as the start of a conversation with community colleagues that will continue well into the future.

Publish Journal Articles or Books

We encourage you to submit an article for review and possible publication in *The International Journal of Climate Change: Impacts and Responses*. In this way, you may share the finished outcome of your presentation with other participants and members of the Climate Change community. As a member of the community, you will also be invited to review others' work and contribute to the development of the community knowledge base as an Associate Editor. As part of your active membership in the community, you also have online access to the complete works (current and previous volumes) of *The International Journal of Climate Change: Impacts and Responses* and to the book series. We also invite you to consider submitting a proposal for the book series.

Engage through Social Media

There are several methods for ongoing communication and networking with community colleagues:

- Email Newsletters: Published monthly, these contain information on the conference and publishing, along with news of interest to the community. Contribute news or links with a subject line 'Email Newsletter Suggestion' to support@on-climate.com.
- **Scholar**: Common Ground's path-breaking platform that connects academic peers from around the world in a space that is modulated for serious discourse and the presentation of knowledge works. To learn more about **Scholar**, please refer to the back of the program.
- Facebook: Comment on current news, view photos from the conference, and take advantage of special benefits for community members at: <http://www.facebook.com/OnClimate.CG>
- Twitter: Follow the community: @onclimate.
- YouTube Channel: View online presentations or contribute your own at https://www.youtube.com/playlist?list=PL2BAC8B2E79F863C0&feature=view_all. See instructions at <http://on-climate.com/the-conference/types-of-conference-sessions/online-presentations>.

THE INTERNATIONAL ADVISORY BOARD FOR THE CLIMATE CHANGE COMMUNITY

- **Alison Anderson**, Head of Sociology/Social Policy Study Group, University of Plymouth, Plymouth, UK
- **Erach Bharucha**, Bharati Vidyapeeth Univeristy, Pune, India
- **Tapan Chakrabarti**, National Environmental Engineering Research Institute (NEERI), Nagpur, India
- **Gowtam Raj Chintaram**, Executive Chairman, ANPRAS /Earth-Mauritius, Port-Louis, Mauritius
- **Amareswar Galla**, Executive Director, International Institute for the Inclusive Museum, Paris, Chicago, Sydney and Hyderabad
- **Thomas Krafft**, Geomed Research Corporation, Bad Honnef, Germany
- **R. Mehta**, Ministry of Environment and Forests, Government of India, New Delhi, India
- **Gordon Wilson**, The Open University, UK
- **Zhihua Zhang**, Research Professor & Senior Scientist, College of Global Change & Earth System Sciences & Deputy Director of Polar Climate & Environment Key Laboratory, Beijing Normal University, China



COMMON GROUND AND THE CLIMATE CHANGE JOURNAL AND BOOK SERIES

About Our Publishing Approach

For three decades, Common Ground Publishing has been committed to creating meeting places for people and ideas. With 24 knowledge communities, Common Ground's vision is to provide platforms that bring together individuals of varied geographical, institutional, and cultural origins in spaces where renowned academic minds and public thought leaders can connect across fields of study. Each knowledge community organizes an annual academic conference and is associated with a peer-reviewed journal (or journal collection), a book imprint, and a social media space centered around Common Ground's path-breaking 'social knowledge' space, **Scholar**.

Through its publishing practices, Common Ground aims to foster the highest standards in intellectual excellence. We are highly critical of the serious deficiencies in today's academic journal system, including the legacy structures and exclusive networks that restrict the visibility of emerging scholars and researchers in developing countries, as well as the unsustainable costs and inefficiencies associated with traditional commercial publishing.

In order to combat these shortcomings, Common Ground has developed an innovative publishing model. Each of Common Ground's knowledge communities organizes an annual academic conference. The registration fee that conference participants pay in order to attend or present at these conferences enables them to submit an article to the associated journal at no additional cost. Scholars who cannot attend the conference in-person may still participate virtually and submit to the journal by obtaining a community membership, which also allows them to upload a video presentation to the community's YouTube channel. By using a portion of the conference registration and membership fees to underwrite the costs associated with producing and marketing the journals, Common Ground is able to keep subscription prices low, thus guaranteeing greater access to our content. All conference participants and community members are also granted a one-year complimentary electronic subscription to the journal associated with their knowledge community. This subscription provides access to both the current and past volumes of the journal. Moreover, each article that we publish is available for a \$5 download fee to non-subscribers, and authors have the choice of publishing their paper open access to reach the widest possible audience and ensure the broadest access possible.

Common Ground's rigorous peer review process also seeks to address some of the biases inherent in traditional academic publishing models. Our pool of reviewers draws on authors who have recently submitted to the journal, as well as volunteer reviewers whose CVs and academic experience have been evaluated by Common Ground's editorial team. Reviewers are assigned to articles based on their academic interests and expertise. By enlisting volunteers and other prospective authors as peer reviewers, Common Ground avoids the drawbacks of relying on a single editor's professional network, which can often create a small group of gatekeepers who get to decide who and what gets published. Instead, Common Ground harnesses the enthusiasm of its conference delegates and prospective journal authors to assess submissions using a criterion-referenced evaluation system that is at once more democratic and more intellectually rigorous than other models. Common Ground also recognizes the important work of peer reviewers by acknowledging them as Associate Editors of the volumes to which they contribute.

For over ten years, Common Ground has been building web-based publishing and social knowledge software where people can work closely to collaborate, create knowledge, and learn. The third and most recent iteration of this project is the innovative social knowledge environment, **Scholar**. Through the creation of this software, Common Ground has sought to tackle what it sees as changing technological, economic, distributional, geographic, interdisciplinary and social relations to knowledge. For more information about this change and what it means for academic publishing, refer to *The Future of the Academic Journal*, edited by Bill Cope and Angus Phillips (Elsevier 2009).

We hope that you will join us in creating dialogues between different perspectives, experiences, knowledge bases, and methodologies through interactions at the conference, conversations online, and as fully realized, peer-reviewed journal articles and books.



The International Journal of Climate Change: Impacts and Responses

The International Journal of Climate Change: Impacts and Responses

ISSN: 1835-4432

Editor

Gordon Wilson, The Open University, UK

Publication Frequency

Articles are published on-line first as soon as they are ready. Issues are published four times per volume.

Acceptance Rate

40%

Circulation

187,327

Foundation Year

2009

SUBMISSION TIMELINE

You may submit your final article for publication to the journal at any time throughout the year. The submission timeline for Volume 6 is as follows:

- Submission Round 1 – **15 January, 2014**
- Submission Round 2 – **15 April, 2014**

- **Submission Round 3 – 15 July, 2014**
- **Submission Round 4 (final) – 15 October, 2014**

Note: If your article is submitted after the final deadline for Volume 6, it will be considered for Volume 7. However, the sooner you submit, the sooner your article will begin the peer review process. Also, as we publish 'web first,' early submission means that your article will be published with a full citation as soon as it is ready, even if that is before the full issue is published.

For More Information, Please Visit:

<http://on-climate.com/submitting-your-work/journal-articles/submission-process>

JOURNAL SUBSCRIPTIONS, OPEN ACCESS, ADDITIONAL SERVICES

Institutional Subscriptions

Common Ground offers print and electronic subscriptions to all of its journals. Subscriptions are available to *The International Journal of Climate Change: Impacts and Responses*. Common Ground also offers subscriptions to themed journal collections and custom suites based on a given institution's unique content needs. Subscription prices are based on a tiered scale that corresponds to the full-time enrollment (FTE) of the subscribing institution. You may download the Library Recommendation form from our website to recommend that your institution subscribe to *The International Journal of Climate Change: Impacts and Responses*.

Personal Subscriptions

As part of their conference registration, all conference participants have a one-year online subscription to *The International Journal of Climate Change: Impacts and Responses*. This complimentary personal subscription grants access to both the current volume of the journal as well as the entire backlist. The period of complimentary access begins at the time of registration and ends one year after the close of the conference. After that time, delegates may purchase a personal subscription. To view articles, go to <http://ijc.cgpublisher.com/>. Select the "Login" option and provide a CGPublisher username and password. Then, select an article and download the PDF. For lost or forgotten login details, select "forgot your login" to request a new password.

For more information, please visit:

<http://on-climate.com/publications/journal/subscriptions-and-orders> or contact us at journals@commongroundpublishing.com

Hybrid Open Access

The International Journal of Climate Change: Impacts and Responses is Hybrid Open Access. Hybrid Open Access is an option increasingly offered by both university presses and well-known commercial publishers.

Hybrid Open Access means that some articles are available only to subscribers, while others are made available at no charge to anyone searching the web. Authors pay an additional fee for the open access option. They may do this because open access is a requirement of their research funding agency. Or they may do it so that non-subscribers can access their article for free.

Common Ground's open access charge is \$250 per article, a very reasonable price compared to our hybrid open access competitors and purely open access journals that are resourced with an author publication fee. Electronic papers are normally only available through individual or institutional subscriptions or for purchase at \$5 per article. However, if you choose to make your article Open Access, this means that anyone on the web may download it for free.

There are still considerable benefits for paying subscribers, because they can access all articles in the journal, from both current and past volumes, without any restrictions. But making your paper available at no charge increases its visibility, accessibility, potential readership, and citation counts. Open access articles also generate higher citation counts.

For more information or to make your article Open Access, please contact us at support@commongroundpublishing.com.

Institutional Open Access

Common Ground is proud to announce an exciting new model of scholarly publishing called Institutional Open Access.

Institutional Open Access allows faculty and graduate students to submit articles to Common Ground journals for unrestricted open access publication. These articles will be freely and publicly available to the whole world through our hybrid open access infrastructure. With Institutional Open Access, instead of the author paying a per-article open access fee, institutions pay a set annual fee that entitles their students and faculty to publish a given number of open access articles each year.

The rights to the articles remain with the subscribing institution. Both the author and the institution can also share the final typeset version of the article in any place they wish, including institutional repositories, personal websites, and privately or publicly accessible course materials. We support the highest Sherpa/Romeo access level—Green.

For more information on Institutional Open access or to put us in touch with your department head or funding body, please contact us at support@commongroundpublishing.com.

Editing Services

Common Ground offers editing services for authors who would like to have their work professionally copyedited. These services are available to all scholarly authors, whether or not they plan to submit their edited article to a Common Ground journal.

Authors may request editing services prior to the initial submission of their article or after the review process. In some cases, reviewers may recommend that an article be edited as a condition of publication. The services offered below can help authors during the revision stage, before the final submission of their article.

What We Do

- Correct spelling, grammatical, and punctuation errors in your paper, abstract and author bio/note
- Revise for clarity, readability, logic, awkward word choice, and phrasing
- Check for typos and formatting inconsistencies
- Confirm proper use of The Chicago Manual of Style

The Editing Process

- Email us at support@commongroundpublishing.com to express your interest in having your article edited.
- The charge for the editorial service charge is USD \$0.05 per word.
- Within 14-21 business days of your confirmed payment, you will receive an edited copy of your edited article via email. We can also upload the edited copy for you, and any pending submission deadlines will be altered to accommodate your editing timeline.

Contact us at support@commongroundpublishing.com to request a quote or for further information about our services.

Citation Services

Common Ground requires the use of the sixteenth edition of the Chicago Manual of Style for all submitted journal articles. We are pleased to offer a conversion service for authors who used a different scholarly referencing system. For a modest fee, we will convert your citations to follow the Chicago Manual of Style guidelines.

What We Do

- Change references—internal citations and end-of-article references—to confirm proper use of the sixteenth edition of The Chicago Manual of Style, using either the author-date or notes and bibliography format of The Chicago Manual of Style.
- Check for typos and formatting inconsistencies within the citations.

The Conversion Process

- Email us at support@commongroundpublishing.com to express your interest in having your references converted.
- For articles under 5,000 words (excluding titles, subtitles, and the abstract), the charge for reference conversion is \$50. If your article is more than 5,000 words, please contact us for a quote.
- Within 14-21 business days of your confirmed payment, you will receive a copy of your article with the revised references. We can also upload the revised copy for you, and any pending submission deadlines will be altered to accommodate the conversion timeline.

Contact us at support@commongroundpublishing.com to request a quote or for further information about our services.

Translation Services

Common Ground is pleased to offer translation services for authors who would like to have their work translated into or from Spanish or Portuguese. Papers that have undergone peer review and been accepted for publication by one of Common Ground's journals are eligible for this translation service. Papers can be translated from Spanish or Portuguese into English and published in one of Common Ground's English-language journals. Or they may be translated from English into either Spanish or Portuguese and be published in one of Common Ground's Spanish and Portuguese-language academic journals. In this way we offer authors the possibility of reaching a much wider audience beyond their native language, affirming Common Ground's commitment towards full internationality, multiculturalism, and multilingualism.

The Process

- Contact support@commongroundpublishing.com to express your interest in having your article translated.
- Our editorial team will review your article and provide you with a quote based on the paper's word count.
- Once you accept the quote, a translator will be assigned to your article.
- Within 14-21 business days of your confirmed payment, you will receive a draft of your translated article. You will have a chance to communicate with the translator via the draft using Word's "track changes" function. Based on that communication, the translator will supply you with a final copy of your translated article.



THE CLIMATE CHANGE BOOK SERIES

Common Ground is setting new standards of rigorous academic knowledge creation and scholarly publication. Unlike other publishers, we're not interested in the size of potential markets or competition from other books. We're only interested in the intellectual quality of the work. If your book is a brilliant contribution to a specialist area of knowledge that only serves a small intellectual community, we still want to publish it. If it is expansive and has a broad appeal, we want to publish it too, but only if it is of the highest intellectual quality.

We welcome proposals or completed manuscript submissions of:

- Individually and jointly authored books
- Edited collections addressing a clear, intellectually challenging theme
- Collections of articles published in our journals
- Out-of-copyright books, including important books that have gone out of print and classics with new introductions

Book Proposal Guidelines

Books should be between 30,000 and 150,000 words in length. They are published simultaneously in print and electronic formats and are available through Amazon and as Kindle editions. To publish a book, please send us a proposal including:

- Title
- Author(s)/editor(s)
- Draft back-cover blurb
- Author bio note(s)
- Table of contents
- Intended audience and significance of contribution
- Sample chapters or complete manuscript
- Manuscript submission date

Proposals can be submitted by email to books@commongroundpublishing.com. Please note the book imprint to which you are submitting in the subject line.

Call for Book Reviewers

Common Ground Publishing is seeking distinguished peer reviewers to evaluate book manuscripts submitted to The Climate Change Book Series.

As part of our commitment to intellectual excellence and a rigorous review process, Common Ground sends book manuscripts that have received initial editorial approval to peer reviewers to further evaluate and provide constructive feedback. The comments and guidance that these reviewers supply is invaluable to our authors and an essential part of the publication process.

Common Ground recognizes the important role of reviewers by acknowledging book reviewers as members of the Climate Change Book Series Editorial Review Board for a period of at least one year. The list of members of the Editorial Review Board will be posted on our website.

If you would like to review book manuscripts, please send an email to books@commongroundpublishing.com with:

- A brief description of your professional credentials
- A list of your areas of interest and expertise
- A copy of your CV with current contact details

If we feel that you are qualified and we require refereeing for manuscripts within your purview, we will contact you.



Common Ground Publishing Books

Recent Books Published by Common Ground

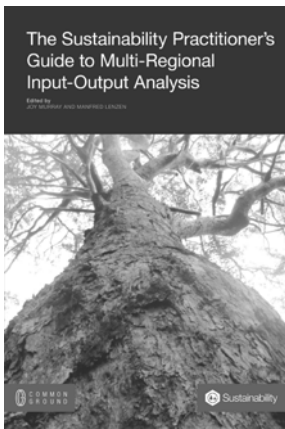
These and other books are available at <http://theuniversitypressbooks.cgpublisher.com/>



Nature-centered Leadership: An Aspirational Narrative

Spencer S. Stober, Tracey L. Brown, and Sean J. Cullen (eds.)

Nature-centered Leadership is a book for those who aspire to reflect on their relationship with Nature while influencing others to do the same. Nature-centered leadership is not a category of leadership style per se—it is a process by which we build an aspirational narrative with others for a more sustainable future. Several leadership styles are considered, but Nature-centered leaders are primarily transformational in that they strive to build a shared vision for environmental protection. This book introduces Nature-centered visionaries who have demonstrated that it is possible to influence the way humans view and act with Nature.



The Sustainability Practitioner's Guide to Multi-Regional Input-Output Analysis

Joy Murray and Manfred Lenxen (eds)

This is a primer on multi-regional input-output (MRIO) analysis. Like *The Sustainability Practitioner's Guide to Input-Output Analysis* it is written in non-technical language specifically for the non-expert sustainability practitioner. This work has been written by the world's leading experts on MRIO. It provides descriptions of seven major MRIO tools as well as case studies illustrating their application. It includes chapters on the role of MRIO analysis in global governance showing how the power and elegance of MRIO can bring new dimensions to policy making.



Unbraided Lines: Essays in Environmental Thinking and Writing

John Ryan

Unbraided Lines offers a foray into environmental writing—an emerging literary genre that engages the current ecological crisis through poetry, creative non-fiction and other textual forms. This work foregrounds the ways in which environmental writing intersects with contemporary intellectual, social, and creative movements concerned with ecological justice.



The International Conference on Climate Change: Impacts and Responses

THE CLIMATE CHANGE CONFERENCE

Conference Principles and Features

The structure of the conference is based on four core principles that pervade all aspects of the knowledge community:

International

This conference travels around the world to provide opportunities for delegates to see and experience different countries and locations. But more importantly, the Climate Change conference offers a tangible and meaningful opportunity to engage with scholars from a diversity of cultures and perspectives. This year, delegates from over 30 countries are in attendance, offering a unique and unparalleled opportunity to engage directly with colleagues from all corners of the globe.

Interdisciplinary

Unlike association conferences attended by delegates with similar backgrounds and specialties, this conference brings together researchers, practitioners, and scholars from a wide range of disciplines who have a shared interest in the themes and concerns of this community. As a result, topics are broached from a variety of perspectives, interdisciplinary methods are applauded, and mutual respect and collaboration are encouraged.

Inclusive

Anyone whose scholarly work is sound and relevant is welcome to participate in this community and conference, regardless of discipline, culture, institution, or career path. Whether an emeritus professor, graduate student, researcher, teacher, policymaker, practitioner, or administrator, your work and your voice can contribute to the collective body of knowledge that is created and shared by this community.

Interactive

To take full advantage of the rich diversity of cultures, backgrounds, and perspectives represented at the conference, there must be ample opportunities to speak, listen, engage, and interact. A variety of session formats, from more to less structured, are offered throughout the conference to provide these opportunities.

Session Descriptions

Plenary Sessions

Plenary speakers, chosen from among the world's leading thinkers, offer formal presentations on topics of broad interest to the community and conference delegation. One or more speakers are scheduled into a plenary session, most often the first session of the day. As a general rule, there are no questions or discussion during these sessions. Instead, plenary speakers answer questions and participate in informal, extended discussions during their Garden Sessions.

Garden Sessions

Garden Sessions are informal, unstructured sessions that allow delegates a chance to meet plenary speakers and talk with them at length about the issues arising from their presentation. When the venue and weather allow, we try to arrange for a circle of chairs to be placed outdoors.

Talking Circles

Held on the first day of the conference, Talking Circles offer an early opportunity to meet other delegates with similar interests and concerns. Delegates self-select into groups based on broad thematic areas and then engage in extended discussion about the issues and concerns they feel are of utmost importance to that segment of the community. Questions like "Who are we?", "What is our common ground?", "What are the current challenges facing society in this area?", "What challenges do we face in constructing knowledge and effecting meaningful change in this area?" may guide the conversation. Reports from the Talking Circles provide a framework for the delegates' final discussions during the Closing Session.

Paper Presentations

Paper presentations are grouped by general themes or topics into sessions comprised of three or four presentations followed by group discussion. Each presenter in the session makes a formal twenty-minute presentation of their work; Q&A and group discussion follow after all have presented. Session Chairs introduce the speakers, keep time on the presentations, and facilitate the discussion. Each presenter's formal, written paper will be available to participants if accepted to the journal.

Colloquium

Colloquium sessions are organized by a group of colleagues who wish to present various dimensions of a project or perspectives on an issue. Four or five short formal presentations are followed by commentary and/or group discussion. A single article or multiple articles may be submitted to the journal based on the content of a colloquium session.

Workshop/Interactive Session

Workshop sessions involve extensive interaction between presenters and participants around an idea or hands-on experience of a practice. These sessions may also take the form of a crafted panel, staged conversation, dialogue or debate – all involving substantial interaction with the audience. A single article (jointly authored, if appropriate) may be submitted to the journal based on a workshop session.

Poster Sessions

Poster sessions present preliminary results of works in progress or projects that lend themselves to visual displays and representations. These sessions allow for engagement in informal discussions about the work with interested delegates throughout the session.

Online Presentations

If unable to attend the conference in person, an author may choose to submit an online presentation. Opportunities and formats vary but may be a presentation through our YouTube channel or an online discussion with interested delegates at the conference. Abstracts of these presentations are included in the online "session descriptions," and an article may be submitted to the journal for peer review and possible publication, according to the same standards and criteria as all other journal submissions.

CONFERENCE PROGRAM AND SCHEDULE



The International Conference on Climate Change: Impacts and Responses

DAILY SCHEDULE

Thursday, 27, June

- 08:00 Conference Registration Desk Open
- 09:00–09:30 Conference Opening—Homer Stavely, Common Ground Publishing, USA
- 09:30–10:00 Plenary Session—Kristin Vala Ragnarsdottir, Dean of the School of Engineering and Natural Sciences, University of Iceland, Reykjavik, Iceland
Climate Change is a Symptom of a System in Crisis: The Role of Education in Raising Awareness
- 10:00–10:30 Break and Garden Session
- 10:30–11:15 Talking Circles
- 11:15–12:20 Lunch (Located in the Háskólatorg Building, see page 18 for map)
- 12:20–14:00 Parallel Session 1
- 14:10–14:55 Poster Session 1 & Workshops (Located in the Plenary Room / Room 132)
- 15:05–16:45 Parallel Session 2
- 16:45–17:45 Welcome Reception at Venue

Friday, 28, June

- 08:30 Conference Registration Desk Open
- 09:00–10:30 Plenary Colloquium—Dr. Doug Lombardi, Temple University, USA; Gale M. Sinatra, University of Southern California, USA; Abby Beck, University of Nevada, USA, Robert Danielson, University of Southern California, USA
Climate Change Education: Warm Processes in Learning about a Hot Topic
- 10:30–10:45 Break
- 10:45–11:30 Poster Session 2 & Workshops (Located in the Plenary Room / Room 132)
- 11:30–12:30 Lunch (Located in the Háskólatorg Building, see page 18 for map)
- 12:30–14:10 Parallel Session 3
- 14:25–16:05 Parallel Session 4
- 16:10–16:40 Conference Closing (Located in the Plenary Room / Room 132)

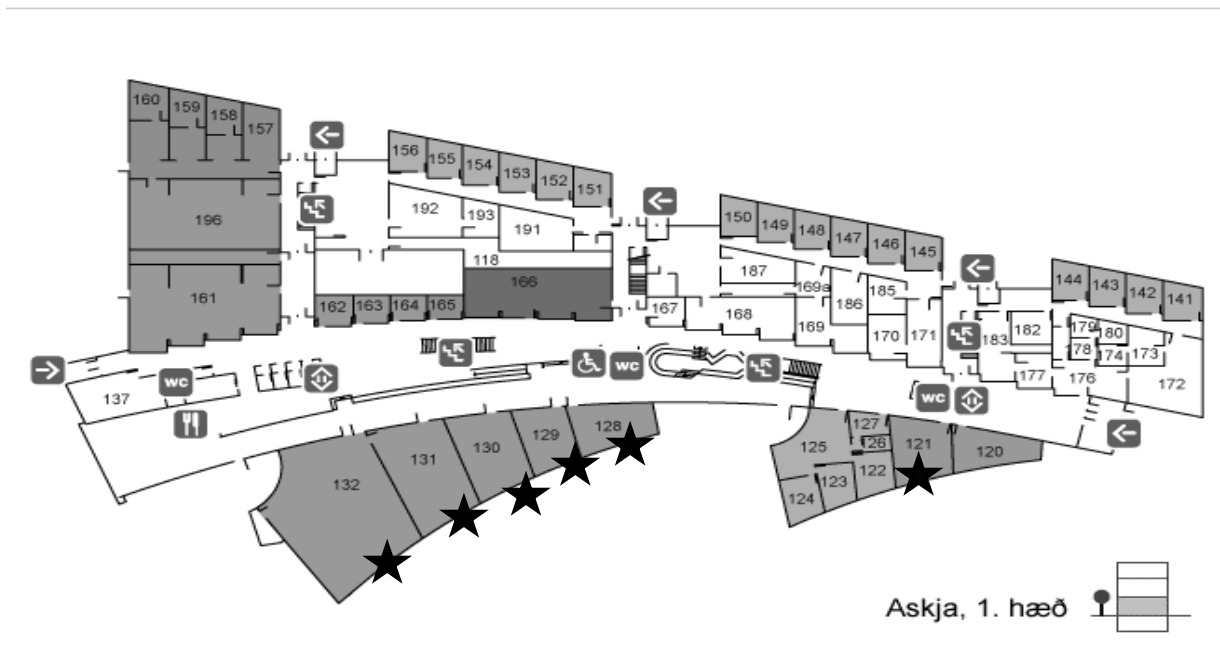
Reception

Friday 27 June, 16:45–17:45 (4:45pm–5:45pm)

The Climate Change Conference and Common Ground Publishing will be holding a welcome reception at the conference venue after the last session of the day from 16:45–17:45 (4:45pm–5:45pm). Join delegates and plenaries for drinks, light hor d'orves and a chance to converse!

VENUE MAP

The conference will be held in the rooms marked with a black star below. All rooms are located on the Ground Floor of the Askja Building.



MAP TO LUNCH

Lunch will be held in the Háskólatorg Building/Icelandic Student Services Building. This building is located a short 4 to 5 minute walk from the Askja Building.



PLENARY SPEAKERS**Abby Beck**

Abby Beck is a mobile app project manager for Stryker Spine and an adjunct instructor for University of Nevada, Las Vegas. She earned her MS in environmental science from the University of Nevada, Las Vegas, and B.S. in business administration from University of Illinois, Urbana-Champaign. Her research is split between simulation-based learning and urban planning for sustainability.

Robert Danielson

Robert Danielson completed his BA in psychology and a MA in psychological science from California State University, Chico. He is currently a doctoral student studying education at the University of Southern California. His research focuses on how graphics and metaphors may facilitate conceptual change concerning complex scientific concepts like climate change. He is also interested in the public's understanding (and misunderstanding) of science, the psychological barriers that may be present in understanding complex science, and the implications for educational policy.

Gale M. Sinatra

Dr. Gale M. Sinatra is a Professor of Education and Psychology at the Rossier School of Education at the University of Southern California. She received her BS, MS and PhD in psychology from the University of Massachusetts, Amherst. She is the past Editor of the *APA Division 15 Journal, Educational Psychologist*. She is past Vice President of AERA's Division C, Learning and Instruction. She is a Fellow of both APA and AERA. She heads the Motivated Change Research Lab, the mission of which is understanding the cognitive, motivational, and emotional processes that lead to attitude change, conceptual change, and successful STEM learning, particularly of controversial topics. Her model of conceptual change learning (see Sinatra, 2005) describes how motivational factors contribute to the likelihood that individuals will change their thinking about a scientific topic.

Doug Lombardi

Dr. Doug Lombardi is an Assistant Professor of Science Education in the College of Education, Temple University. He earned his PhD in Educational Psychology from the University of Nevada, Las Vegas, a MS in Education from the University of Tennessee, Knoxville, a MS in environmental engineering from the University of Tennessee, Knoxville, and a BS in Mechanical Engineering from the University of Colorado, Boulder. He is a licensed physical science, physics, and mathematics teacher, with a variety of classroom, professional development, and education and public outreach experience. His research is on the role of judgments and reasoning about scientific topics, and developing instructional materials and practices that help students think scientifically about controversial topics, such as climate change. His work has been published in *Learning and Instruction, The International Journal of Climate Change: Impacts and Responses, International Journal of Science Education, The Science Teacher, The Earth Scientist, and Research in Science Teaching*.

Kristin Vala Ragnarsdottir

Kristin Vala Ragnarsdottir is a geologist and has specialised in environmental geochemistry. Until recently, she was Professor of Environmental Sustainability in the Department of Earth Sciences at the University of Bristol. Currently she is the Dean of the School of Engineering and Natural Sciences at the University of Iceland. She is a member of the Scientific Advisory Panel for the Environment and Health Programme of the Natural Environment Research Council. She has served on the Boards/Councils of the Geochemical Society, the International Medical Geology Association, the European Association for Geochemistry, and the Geological Society of London. She referees grants for national funding bodies in the UK, Europe and the USA. She has published over 70 academic papers and book chapters, has written 10 encyclopaedia entries, and participated in writing two United Nations Environment Programme reports. She referees journal articles for more than ten international journals, and is the executive editor of the open access journal *eEarth*. She is a Fellow of the Icelandic Academy of Sciences, the Geological Society, the Institute of Materials, Mining and Minerals, and the Royal Society of Arts.

Neil Young

Neil Young is a doctoral student in the Learning, Cognition, and Development program in the School of Education at the University of California, Irvine. He is interested in engendering conceptual change on complex scientific concepts. He has a B.A. in psychology from Knox College and draws on social and evolutionary psychology to understand how the mind learns (and fails to learn) unintuitive yet critically important scientific concepts. He also works with climate scientists to bring the science of climate change into the classroom.

GRADUATE SCHOLARS

Kristine Belesova

Kristine Belesova is a doctoral student of Public Health at the London School of Hygiene and Tropical Medicine. Her research interests include climate change impacts and responses, vulnerability reduction, human security, and sustainability science. In her Ph.D. research she uses mixed methods to identify risk factors explaining child undernutrition and its health consequences in Burkina Faso. Previously, she worked on research projects at the United Nations Institute for Environment and Human Security in Germany and at the Dalla Lana School of Public Health, University of Toronto, in Canada. She also worked in finance for sustainability at the Latvian Environmental Investment Fund. She holds a BSc(Hons) in Sustainable Development from the University of St Andrews.

Brian Bulla

Brian Bulla is a doctoral candidate in the Department of Forestry and Environmental Resources at North Carolina State University in Raleigh, North Carolina. He is a policy scientist, interested in how people problematize and research vulnerability to climate change. More specifically, he is interested in the environmental and social justice implications of the policy responses that emerge from different conceptualizations of vulnerability to climate change. He is working on a case study about public participation and water resource management in Kruger National Park, South Africa, and a community-based participatory research project utilizing photovoice with small-scale farmers in central North Carolina. Prior to beginning his PhD studies, he completed a Master of Public Administration and a Master in International Studies at North Carolina State University.

Robert Danielson

Robert Danielson completed his BA in psychology and a MA in psychological science from California State University, Chico. He is currently a doctoral student studying Education at the University of Southern California. His research focuses on how graphics and metaphors may facilitate conceptual change concerning complex scientific concepts like climate change. He is also interested in the public's understanding (and misunderstanding) of science, the psychological barriers that may be present in understanding complex science, and the implications for educational policy.

Adekunle Dosumu

Adekunle Dosumu is a PhD candidate at School of Biological Sciences, University of Essex; Colchester, UK. He completed a BSc (Hons.) in Zoology and MSc in Ecology/ Environmental Biology at University of Ibadan, Nigeria. His PhD research is on the impacts of sport on the environment. He is currently an Instructor Service Operator and an Environmental Champion with London Underground. He is a member of both Essex Sustainability Institute (ESI) and Chartered Institute of Waste Management (CIWM). He is also an affiliate member of Institute of Environmental Management and Assessment (IEMA). His undertaking research work on climate change, environmental management, environmental sustainability, workplace safety and public health. He is very passionate about preserving the natural environment.

Komali Kantamaneni

Komali Kantamaneni is a PhD research student based at the University of Wales: Trinity Saint David, United Kingdom. Her research area primarily focuses on the United Kingdom and United States of America, examining the economic costs incurred by coastal communities who face increasing vulnerability to coastal storm and sea level rise because of climate change. She holds a MBA in Business studies from Cardiff Metropolitan University, UK as well as a MSc degree in Environmental Studies and a BSc in Biology from Nagarjuna University, India. To date, she has successfully published 4 papers and in addition to that, further 10 conference papers accepted for poster and oral presentations.

Peter Kao

Peter CY, Kao is currently the (post)graduate at Graduate Institute of Strategic and International Affairs (2014~the present), Graduate Institute of Law (2013~the present), and finished his MA at Graduate Institute of Foreign Languages and Literature (~2011), National Chung Cheng University, Chia-yi, Taiwan. He is devoted to cross-disciplinary and inter-disciplinary studies for years and published some papers in international journals. He also presented conference papers both at domestic and international conferences. His research interests include international relations and politics, international environmental law, political socialization, and East Asian and Southeast Asian Studies.

Cassandra Kuyvenhoven

Cassandra Kuyvenhoven is a doctoral student in the School of Environmental Studies at Queen's University in Ontario, Canada. Her research interests include Canadian waste management, governmentality, knowledge controversies, and sustainable alternatives to waste transportation. She is affiliated with the Genera Research Group, the Canada's Waste Flow project, the Canadian Association of Geographers, and the American Association of Geographers.

Miriam Matejova

Miriam Matejova is a PhD student of Political Science, a Vanier Scholar and a Liu Scholar at the University of British Columbia. Her research interests are global environmental politics, and particularly energy and environmental security in the Arctic and Asia Pacific. Prior to coming to UBC, she worked as an analyst at the Canadian International Development Agency and as an economist at Environment Canada where she specialized in federal environmental impact assessment and protection of species at risk. Miriam holds a BA (Hons) in International Studies from the University of Northern British Columbia and an MA in International Affairs from Carleton University's Norman Paterson School of International Affairs.

Bryan Moy

Bryan Moy is a third year doctoral candidate in the Environmental Health Sciences Department at the UCLA Fielding School of Public Health. He received his BS in Environmental Science from UCLA in 2009 and his MPH in Epidemiology from Columbia University's Mailman School of Public Health in 2011. Prior to returning to UCLA for his PhD, he has conducted research around the intersection of climate change, vector-borne diseases, and public health with the U.S. National Centers for Disease Control and Prevention (CDC), Red Cross and Red Crescent Climate Center, and the Lamont-Doherty Earth Observatory's International Research Institute for Climate and Society. Currently at UCLA, his research focuses on geospatial modeling of West Nile Virus in Southern California with the UCLA Center for Tropical Research, and working with the Los Angeles County Department of Public Health in creating their vector-borne disease component of the County's Public Health Climate Action Plan.

Monika Ostrowska

Monika Ostrowska is a PhD candidate at the Osaka School of International Public Policy, Osaka University, Japan. She received her Bachelor degree in Cultural Anthropology and a Master degree in International Public Policy at the Osaka University. Her PhD research focuses on the policymakers' attention to climate change in Japan and on the agenda setting process in the Japanese domestic and foreign climate change policy. Monika is interested also in multilateral governance, and she worked as an intern at the United Nations Environment Programme Regional Office in Bangkok, Thailand and attended the COP19 in Warsaw, Poland.

Laura Simmons

Laura Simmons is a PhD student at the Genecology Research Centre, University of the Sunshine Coast, Australia. She completed a completed a BA in Environmental Science (Hons. Ecology) at USC, undertaking research work on the comparative threat climate change poses on the survival of an endangered, altitudinal distributed palm on Lord Howe Island. Research interests include integrating population genetics and modelling, reproductive biology, climate change and spatial ecology to assess population viability, extinction risk and restoration of rare plant species. She has experience working in ecological restoration and environmental management for not-for-profit groups, local and state governments and environmental consultancies in Australia and Canada. Her PhD research on an endangered, iconic orchid involves identifying populations most vulnerable to changed climatic conditions in terms of persistence, adaptation and ability to track an environment. Such iconic ecological specialists could play a role in identifying fine scale changes in ecosystems as a response to climatic changes.



8:00-9:00	REGISTRATION DESK OPEN
9:00-9:30	CONFERENCE OPENING: HOMER STAVELY, COMMON GROUND PUBLISHING, USA
9:30-10:00	PLENARY SESSION: KRISTIN VALA RAGNARSDOTTIR, DEAN OF THE SCHOOL OF ENGINEERING AND NATURAL SCIENCES, UNIVERSITY OF ICELAND, REYKJAVIK, ICELAND. CLIMATE CHANGE IS A SYMPTOM OF A SYSTEM IN CRISIS: THE ROLE OF EDUCATION IN RAISING AWARENESS
10:00-10:30	BREAK AND GARDEN SESSION
10:30-11:15	MIXED (TALKING CIRCLE, PARALLEL SESSIONS)
Room 129	Talking Circle: Human Impacts and Impacts on Humans
Room 130	Talking Circle: Assessing Impacts in Divergent Ecosystems
Room 131	Talking Circle: Scientific Evidence
Room 132	Talking Circle: Technical, Political and Social Responses
11:15-12:20	LUNCH
12:20-14:00	PARALLEL SESSIONS
Room 128	<p>Political and Social Implications</p> <p>The Concept of Marine Ecotourism: A Case Study in a Mediterranean Island Fani Sakellariadou, <i>Faculty of Shipping and Industry Department of Maritime Studies, University of Piraeus, Athens, Greece</i> <i>Overview:</i> Marine ecotourism, its principles, benefits and potential negative environmental impacts is the topic of this paper. <i>Theme: Technical, Political and Social Responses</i></p> <p>Assessing Adaptive Capacity to Climate Change in Agriculture: The Case Study of the Ontario Wine Industry. Kerrie Pickering, <i>Environmental Sustainability Research Centre, Brock University, St Catharines, Canada</i> Dr. Ryan Plummer, <i>Environmental Sustainability Research Centre, Brock University, St Catharines, Canada</i> Dr. Tony Shaw, <i>Dept of Geography, Brock University, St Catharines, Canada</i> Prof. Gary Pickering, <i>Environmental Sustainability Research Centre, Brock University, St Catharines, Canada</i> <i>Overview:</i> A tool for assessing the adaptive capacity to climate change of the Ontario wine industry was developed and applied. <i>Theme: Technical, Political and Social Responses</i></p> <p>Psychological Barriers to Climate Change Mitigation in Canada Prof. Gary Pickering, <i>Environmental Sustainability Research Centre, Brock University, St Catharines, Canada</i> <i>Overview:</i> The psychological barriers influencing inaction on and attitudes towards Climate Change are characterized for the first time in a large population-based survey of Canadians. <i>Theme: Technical, Political and Social Responses</i></p> <p>Adaptation Responses to Climate Impacts by the Mining Industry: A Critical Review of Current Trends and Needs Francisco Gonzalez, <i>Australian Centre for Sustainable Mining Practices, School of Mining Engineering, University of New South Wales, Sydney, Australia</i> Prof. Roslyn Taplin, <i>Australian Centre for Sustainable Mining Practices, School of Mining Engineering, University of New South Wales, Sydney, Australia</i> <i>Overview:</i> An overview of the mining industry's perceptions of climate change, potential for adaptive responses to climate change impacts and extreme weather by the industry, and links with sustainable mining practices. <i>Theme: Technical, Political and Social Responses</i></p>

12:20-14:00	PARALLEL SESSIONS
Room 129	<p>Scientific Evidence: Warming</p> <p>The Feasibility of Ocean Thermal Energy Conversion: Northern Equatorial Pacific as Case Study Arianna Abram, <i>Sea Education Association, Boston, USA</i> Joshua Sturtevant, <i>Sea Education Association, Boston, USA</i> <i>Overview:</i> Ocean Thermal Energy Conversion, a renewable energy technology, utilizes the ocean's thermal energy to produce electricity. Environmental impacts are assessed to determine feasibility of this technology to mitigate climate change. <i>Theme: Scientific Evidence</i></p> <p>A Dynamical Mechanism for Climate Shifts Prof. Anastasios Tsonis, <i>Department of Mathematical Sciences, University of Wisconsin-Milwaukee, Milwaukee, USA</i> <i>Overview:</i> The central point of this study is that a network of coupled nonlinear subsystems may at times synchronize which often may lead to a climate shift . <i>Theme: Scientific Evidence</i></p> <p>The Evaluation of UTCI Index for Summer Beaching in Baltic Sea Dr. Justas Kažys, <i>Department of Hydrology and Climatology, Vilnius University, Vilnius, Lithuania</i> Ieva Malūnavičiūtė, <i>Department of Hydrology and Climatology, Vilnius University, Vilnius, Lithuania</i> <i>Overview:</i> Universal Thermal Climate Index (UTCI) is used for the evaluation of summer beaching potential around the Baltic Sea. Temporal and spatial climate change effects are already noticeable in the region. <i>Theme: Scientific Evidence</i></p> <p>Evaluation of the Climate Change Impact on Land Suitability for Irrigation in Vojvodina Province, Serbia Zorica Srdjevic, <i>Department of Water Management, University of Novi Sad, Faculty of Agriculture, Novi Sad, Serbia, Novi Sad, Serbia and Montenegro</i> Bosko Blagojevic, <i>Department of Water Management, University of Novi Sad, Faculty of Agriculture, Novi Sad, Serbia, Novi Sad, Serbia and Montenegro</i> Atila Bezdan, <i>Department of Water Management, University of Novi Sad, Faculty of Agriculture, Novi Sad, Serbia, Novi Sad, Serbia and Montenegro</i> Bojan Srdjevic, <i>Department of Water Management, University of Novi Sad, Faculty of Agriculture, Novi Sad, Serbia, Novi Sad, Serbia and Montenegro</i> <i>Overview:</i> Spatial multi-criteria analysis is used as a framework for the evaluation of the climate change impact on land suitability for irrigation in Vojvodina Province, Serbia. <i>Theme: Technical, Political and Social Responses</i></p>
Room 130	<p>Political Responses 1</p> <p>The Port of Houston's Turning Basin Terminal Development Project: How Climate Change is Factored Liza T. Powers, <i>School of Urban Planning and Environmental Policy, Texas Southern University, Houston, USA</i> <i>Overview:</i> Research was conducted to determine how the Port of Houston has factored climate change, sea level rise and intense storms, in its ten year renovation of the Turning Basin Terminal. <i>Theme: Technical, Political and Social Responses</i></p> <p>Australian Political Responses to Coastal Impacts of Climate Change Prof. Nick Harvey, <i>School of Social Sciences, The University of Adelaide, Adelaide, Australia</i> <i>Overview:</i> Political impetus for Australian national inquiries into climate change impacts on the coast is separate from the politics of state governments, which have their own different legislative and policy responses. <i>Theme: Technical, Political and Social Responses</i></p> <p>An Ecovillage as a Solution for the Border: San Cristobal Prof. Sandra Acosta, <i>University of La Salle Faculty of the habitat sciences Architecture and urbanism, University of La Salle, Bogota, Colombia</i> <i>Overview:</i> In Bogota, a fastly growing city, the borders are more and more diffused. There is an interest in solving the transition between the consolidated city to the rural environment. <i>Theme: Technical, Political and Social Responses</i></p> <p>Moss Houses in the Circumpolar North: Architectural Traditions and Innovations That Respond to Climate Change Dr. Nancy Mackin, <i>Ethno-ecology, Wilp Wilxo'oskwhl Nisga'a and University of Northern British Columbia, Gitwinksihlkw, Canada</i> <i>Overview:</i> In the Canadian Arctic, we reconstructed traditional moss houses, an Indigenous peoples' sustainable technology of increasing relevance as climate changes escalate. We discuss similar structures from across the circumpolar north. <i>Theme: Technical, Political and Social Responses</i></p>

12:20-14:00	PARALLEL SESSIONS
Room 131	<p>Impacts on Humans 1</p> <p>The Environmental Impacts of Canadian Waste Transportation: From a Risk and Uncertainty Perspective Cassandra Elizabeth Kuyvenhoven, <i>School of Environmental Studies, Queen's University, Kingston, Canada</i> <i>Overview:</i> The transportation of waste requires substantial amounts of energy and a reliance on nonrenewable fossil fuels. The environmental risks associated with this transportation are inherently indeterminate. <i>Theme: Human Impacts and Impacts on Humans</i></p> <p>The Many Faces of Water Use Micha Tomkiewicz, <i>Dept. of Physics, Brooklyn College of CUNY, Brooklyn, USA</i> Gurasees Chawla, <i>Department of Physics, Brooklyn College, Macaulay Honors College, Brooklyn, USA</i> <i>Overview:</i> Influence of Life Cycle Assessment on the location of production and ability to use some of the waste products differentiates between production in rich and poor countries. <i>Theme: Human Impacts and Impacts on Humans</i></p> <p>Love Not the Wind: Anthropogenic Climate Change in Near-future Science Fiction Prof. David Moton, <i>English Department, Bakersfield, USA</i> <i>Overview:</i> By analyzing anthropogenic climate change in near-future science fiction, I will explore the social and technological responses to a disastrous climate. <i>Theme: Human Impacts and Impacts on Humans</i></p> <p>Effects of Climate Change on Freshwater Resources: Complexity Models of Agriculture and Energy, Mitigation and Adaptation Dr. Jenny Rebecca Kehl, <i>Center for Water Policy School of Freshwater Sciences, University of Wisconsin, Milwaukee, Milwaukee, USA</i> <i>Overview:</i> The purpose of this paper is to examine the effects of climate change on freshwater resources, and to analyze strategies for mitigation and adaptation in food security and energy security. <i>Theme: Technical, Political and Social Responses</i></p>
Room 132	<p>Change and Adaptation</p> <p>An Analysis of Crop Diversification: Climate Change Adaptation in Agriculture, Bangladesh Monir Shaikh, <i>Grantham Research Institute & Department of Geography and Environment, London School of Economics (LSE), London, UK</i> <i>Overview:</i> This research looks into how the households of Bangladesh diversify crops to adapt to climate change and how this diversification may change with different climate change scenarios over time. <i>Theme: Human Impacts and Impacts on Humans</i></p> <p>Using Self-Sustaining Decentralised Utility Services to Adapt Regional Urban Development to Changing Climatic Conditions Assoc. Prof. Peter Waterman, <i>Faculty of Science, Health, Education and Engineering, University of the Sunshine Coast, Slacks Creek, Australia</i> <i>Overview:</i> I discuss integrating decentralised community utility services for water supply, sewage treatment and renewable energy as a climate change adaptation strategy for decentralised urban development in rural and remote regions. <i>Theme: Technical, Political and Social Responses</i></p> <p>Faiths for Nature: Ethical Concerns for an Endangered Planet Nikolaos Dimitriadis, <i>Division of Humanities and Social Sciences, American College of Thessaloniki, Greece, Thessaloniki, Greece</i> <i>Overview:</i> The paper presents faith-based and interfaith responses to the issue of climate change and how they entwine with scientific endeavors. The case study of Orthodoxy will be investigated. <i>Theme: Technical, Political and Social Responses</i></p> <p>Using Delphi Technique to Study Climate Change Impacts and Adaptations in Ky Anh Coastal Area, Ha Tinh Province of Vietnam Xuân Nh? Phùng, <i>Vietnam National University, Hanoi, Hanoi, Viet Nam</i> Anh Dũng Vũ, <i>University of Economics and Business - Vietnam National University, Hanoi, Vietnam National University, Hanoi, Hanoi, Viet Nam</i> An Th?nh Nguy?n, <i>Department of Landscape Ecology and Environment Faculty of Geography University of Sciences - Vietnam National University, Hanoi, Vietnam National University, Hanoi, Hanoi, Viet Nam</i> <i>Overview:</i> The paper uses Delphi technique to collect data for impact assessment and proposal of optional solutions to climate change adaptations in Ky Anh coastal area, Ha Tinh province of Vietnam. <i>Theme: Human Impacts and Impacts on Humans</i></p>
14:00-14:10	BREAK

FRIDAY, 27 JUNE

14:10-14:55	PARALLEL SESSIONS
Room 130	Workshop An Inconvenient Sleuth: Engagement Framework to Identify and Overcome Adaptation Barriers and Perverse Incentives Katherine Beckmann, <i>School of the Built Environment / ClimateXChange, Heriot-Watt University, Edinburgh, UK</i> <i>Overview:</i> Based on policy-focused adaptation work in Scotland, this workshop guides participants through tested frameworks for stakeholder engagement: to identify key adaptation barriers and enablers, and to generate policy-relevant recommendations. <i>Theme: Technical, Political and Social Responses</i>
Room 131	Workshop Climate Change Mindset: Understanding, Identifying and Transforming the Race, Class and Gender Mindset that Has Brought Us to this Climate Emergency Dr. Heather W. Hackman, <i>Hackman Consulting Group, Minneapolis, USA</i> <i>Overview:</i> This workshop addresses how race, class and gender power dynamics have contributed to this climate emergency, and offers specific tools for identifying and redressing those dynamics in our current work. <i>Theme: Technical, Political and Social Responses</i>

14:10-14:55	PARALLEL SESSIONS
Room 132	<p>Poster Sessions</p> <p>Regional Climate Action Planning: Los Angeles, California as a Case Study Bryan Moy, <i>Department of Environmental Health Sciences, UCLA Fielding School of Public Health, Los Angeles, USA</i> Dr. Hilary Godwin, <i>Department of Environmental Health Sciences and the Institute of the Environment and Sustainability, UCLA Fielding School of Public Health, Los Angeles, USA</i> Dr. Angelo Bellomo, <i>Department of Environmental Health, Los Angeles County Department of Public Health, Los Angeles, USA</i> <i>Overview:</i> Los Angeles, California presents a unique challenge and is an interesting case study for Regional Climate Action Planning, due to the county's large population, demographics, geography, microclimates, and jurisdictions. <i>Theme: Technical, Political and Social Responses</i></p> <p>Are Headwater Catchments Resilient to Warming Climate? An Ecohydrological Case Study from the Central Appalachian Mountains, USA Dr. Nicolas Zegre, <i>Forestry & Natural Resources, West Virginia University, Morgantown, USA</i> Jothiganesh Shanmugasundaram, <i>Department of Geology & Geography, West Virginia University, Morgantown, USA</i> David Young, <i>Forestry & Natural Resources, West Virginia University, Morgantown, USA</i> Carson Wright, <i>Forestry & Natural Resources, West Virginia University, Morgantown, USA</i> Dr. Eungul Lee, <i>Geology & Geography, West Virginia University, Morgantown, USA</i> <i>Overview:</i> This study examines whether catchments show ecohydrologic resiliency to warming climate, and if warming climate differentially affects hydrology in catchments with different disturbance histories. <i>Theme: Assessing Impacts in Divergent Ecosystems</i></p> <p>Polar Bears in Antarctica? An Analysis of Treaty Barriers Madison Hall, <i>Department of Fisheries and Wildlife, Michigan State University, East Lansing, USA</i> <i>Overview:</i> The Assisted Colonization of Polar Bears to Antarctica requires an analysis of treaties to understand existing legal barriers to <i>Ursus maritimus</i> transport and movement, currently preventing Antarctic access. <i>Theme: Assessing Impacts in Divergent Ecosystems</i></p> <p>Health Risks of Increasing Water Salinity and Potential Adaptation Strategies in Coastal Areas of Bangladesh Dr. Mohammad Radwanur Rahman Talukder, <i>Centre for Environment and Population Health, School of Environment, Griffith University, Australia, Nathan, Australia</i> <i>Overview:</i> Health impacts of climate-induced sea level rise and increasing water salinity in low-lying coastal areas, and potential adaptation strategies to respond to this change in water quality. <i>Theme: Human Impacts and Impacts on Humans</i></p> <p>The Observed Recent Variably and Climate Change Scenarios in Qassim Area of Saudi Arabia Dr. Abdullah Almisnid, <i>Department of geography Qassim University Saudi Arabia, Department of geography, Uniazah, Saudi Arabia</i> <i>Overview:</i> The observed recent variably and climate change scenarios in Qassim area of Saudi Arabia, Through examines observed climate variability and the outputs from three General Circulation Models (HadCM3, CGCM2 ,ECHAM4). <i>Theme: Scientific Evidence</i></p> <p>Political Misinformation: Assessing the Use of Partisan Cues to Overcome Climate Change Denial Stuart Wood, <i>Politics, Claremont Graduate University, La Verne, USA</i> <i>Overview:</i> This experimental-based research assesses the role of partisan cues and identification in overcoming climate change denial in America. <i>Theme: Technical, Political and Social Responses</i></p> <p>Farmers' Perceptions on Climate Change and Use of Climate Forecasts in Farm Decision Making: The Case of Cotton Farmers in South Africa Sifiso Ntombela, <i>Market and Economic Research Centre, National Agricultural Marketing Council, Pretoria, South Africa</i> <i>Overview:</i> Measuring the perceptions of cotton farmers to climate change and factors influencing such perceptions is the topic of this study. <i>Theme: Scientific Evidence</i></p> <p>The Climate and Energy Strategy of Tampere Region, Finland Prof. Tom Frisk, <i>Responsibility Area for the Environment and Natural Resources, Environment Impacts Unit, Centre for Economic Development, Transport and the Environment for Pirkanmaa, Tampere, Finland</i> <i>Overview:</i> The climate and energy strategy for Tampere region, Finland, was developed in order to mitigate climate change by regional and local actions, and to promote planning of adaptation measures. <i>Theme: Technical, Political and Social Responses</i></p> <p>Energy We Need: Calculate Your Impact and Savings Alexander Frantzen, <i>Energy We Need, New York, USA</i> <i>Overview:</i> Energy We Need is an at-your-fingertips Project to aggregate collective energy savings performed by people worldwide - to reduce our impact - and creates key data visualizations for leverage. <i>Theme: Technical, Political and Social Responses</i></p>
14:55-15:05	BREAK

15:05-16:45	PARALLEL SESSIONS
Room 121	<p>Assessing Impacts</p> <p>The Effect of Warming and Grazing on Apparent Soil Dissolved Organic Nitrogen (DON) in Tibet Prof. Shiping Wang, <i>Laboratory of Alpine Ecology and Biodiversity, Institute of Tibetan Plateau Research, Chinese Academy of Sciences, Beijing, China</i> Prof. Yanfen Wang, <i>College of Life Science, University of the Chinese Academy of Sciences, Beijing, China</i> Lili Jiang, <i>Laboratory of Alpine Ecology and Biodiversity, Institute of Tibetan Plateau Research, Chinese Academy of Sciences, Beijing, China</i> <i>Overview:</i> We discuss the effect of warming and grazing on apparent soil dissolved organic nitrogen in a Tibet alpine meadow. <i>Theme:</i> Assessing Impacts in Divergent Ecosystems</p> <p>Attenuation of TRMM Channel over Salem Dr. Rajasri Sen Jaiswal, <i>Physics Centre for Study on Rainfall and Radio wave Propagation, Sona College of Technology, Salem, India</i> Sunakshi Jaiswal, <i>Electronics and Communication Engineering, Sona College of Technology, Salem, India</i> <i>Overview:</i> In this paper attenuation of high frequency signal used in the TRMM due to rainfall is estimated. Moreover, hourly to one-minute rainfall conversion technique is presented. <i>Theme:</i> Scientific Evidence</p> <p>Fishes and Sharks from the Eocene Canadian Arctic Greenhouse: A "Deep Time" Perspective on Climate Change in High Arctic Marine Environments Dr. Michael David Gottfried, <i>Department of Geological Sciences Michigan State University Museum, Michigan State University, East Lansing, USA</i> <i>Overview:</i> Recently discovered 50 million-year-old fishes and sharks from Banks Island in the Canadian Arctic expand our knowledge of the "Greenhouse" Arctic marine environment during the Eocene climate optimum. <i>Theme:</i> Scientific Evidence</p> <p>Finding Signature of Climate Change in Meteorological Elements: Study of Cloud Liquid Water, Precipitation Water, Latent Heat, Temperature and Rainfall Dr. Rajasri Sen Jaiswal, <i>Physics Centre for study on Rainfall and Radio wave Propagation, Sona College of Technology, Salem, India</i> Neela Vus, <i>Physics CRRP, Sona College of Technology, Salem, India</i> Sonia Fredrick, <i>CRRP Physics, Sona College of Technology, Salem, India</i> Rasheed Mohamed, <i>Sona College of Technology, Salem, India</i> Leena Zaveri, <i>Sona College of Technology, Salem, India</i> <i>Overview:</i> A knowledge in the process of climate change probably may help the community to fight against it, therefore we embarked on this study. <i>Theme:</i> Scientific Evidence</p>
Room 128	<p>Politics and Policies</p> <p>Random Acts of Unpredictability: Scenario Planning in Environmental Crisis Management Miriam Matejova, <i>Department of Political Science, University of British Columbia, Vancouver, Canada</i> <i>Overview:</i> This paper presents an innovative approach to understanding climate change effects. Rather than focusing on data gathering and risks within the realm of probability, it examines broader and extreme possibilities. <i>Theme:</i> Human Impacts and Impacts on Humans</p> <p>Taiwan's CCS Policy: A Survey to Its Impact, and Development Chien-Yu Kao, <i>Graduate School of Law, National Chung Cheng University, Kaohsiung, Taiwan</i> <i>Overview:</i> This research focuses on Taiwan's policy and administration that reduces CO₂. Further expansion of reducing CO₂ will be discussed with its impact and development. <i>Theme:</i> Assessing Impacts in Divergent Ecosystems</p> <p>Does Urban Governance in Bangladesh Consider Climate Induced Migration and its Aftermath? Bipasha Dutta, <i>University of Groningen, Groningen, Netherlands</i> Dr. Kazi Maruful Islam, <i>Department of Development Studies, University of Dhaka, Dhaka, Bangladesh</i> <i>Overview:</i> Lack of separate units in urban governance to address the need of climate induced migrant in Bangladesh make their health status even worse than that of the rural poor. <i>Theme:</i> Human Impacts and Impacts on Humans</p> <p>Combining Urban Fragmentation and Urban Vulnerability for Developing Local Adaptation Options in Megacities Dr. Kerstin Krellenberg, <i>Department of Urban and Environmental Sociology, Helmholtz Centre for Environmental Research GmbH-UFZ, Leipzig, Germany</i> <i>Overview:</i> This paper focuses on the local level and offers an approach that combines urban fragmentation and vulnerability in order to end up with context-specific adaptation options for individuals and municipalities. <i>Theme:</i> Human Impacts and Impacts on Humans</p>

15:05-16:45	PARALLEL SESSIONS
Room 129	<p>Climate Studies</p> <p>Uncertainty in Climate Change Impact Studies: A Review of Developments and Limitations Teang Shui Lee, <i>Department of Biological and Agricultural Engineering Faculty of Engineering, Universiti Putra Malaysia, Sri Serdang, Malaysia</i> Hadi Galavi, <i>Department of Civil and Environmental Engineering Faculty of Engineering, Universiti Putra Malaysia, Sri Serdang, Malaysia</i> Dr. Yuk Feng Huang, <i>Department of Civil engineering, Universiti Tuanku Abdul Rahman, Kuala Lumpur, Malaysia</i> <i>Overview:</i> A review of limitations, successes, and developments in analyzing and modeling the uncertainties involved in climate change impact studies is provided in this article. <i>Theme: Scientific Evidence</i></p> <p>The Self Fulfilling Prophecy of Climate Change: Evangelical Christian Ethics in the Face of American Environmentalism Ryan Smith, <i>The Department of Religious Studies, University of California, Riverside, Riverside, USA</i> <i>Overview:</i> The evangelical theology of the "second coming" of Christ may be responsible for people voting against environmental legislation in the United States; thereby having an effect on global warming. <i>Theme: Technical, Political and Social Responses</i></p> <p>Climate Change: Where Are the Real Terrestrial Environment Threats? Prof. Ronaldo Viana Soares, <i>Forest Fire Laboratory, Federal University of Paraná, Curitiba, Brazil</i> Prof. Antonio Carlos Batista, <i>Forest Fire Laboratory, Federal University of Paraná, Curitiba, Brazil</i> Prof. Alexandre França Tetto, <i>Forest Fire Laboratory, Federal University of Paraná, Curitiba, Brazil</i> <i>Overview:</i> The climate of the earth alternates between cold and warm periods, independently of human activities. The main threat to the terrestrial environment is the pollution of the oceans and rivers. <i>Theme: Scientific Evidence</i></p> <p>Climate Change Mitigation in the Building Sector: Towards Net-zero Energy Buildings (nZEB) Dr. Lazaros Mavromatidis, <i>Building and Civil Engineering Laboratory (LGCB), Ecole Nationale des Travaux Publics de l'Etat (ENTPE), Vaulx-en-Velin, Lyon, France</i> Dr. Mohamed El Mankibi, <i>Building and Civil Engineering Laboratory (LGCB), Ecole Nationale des Travaux Publics de l'Etat (ENTPE), Vaulx-en-Velin, France</i> Dr. Gilles Fraisse, <i>Laboratoire optimisation de la conception et ingénierie de l'environnement (LOCIE)/ UMR 5271, Université de Savoie, Le Bourget du Lac, France</i> <i>Overview:</i> This paper reviews actions and technical solutions to increase the number of buildings that consume nearly zero energy, in the framework of climate change mitigation in the building sector. <i>Theme: Technical, Political and Social Responses</i></p>
Room 130	<p>Change Science</p> <p>Bias on Climate Change Trend Assessment: Comparison of Two Strategies of Data Gap Management Dr. Luciano Massetti, <i>Institute of Biometeorology - National Research Council, Firenze, Italy</i> <i>Overview:</i> Gaps in temperature series can introduce a bias in global warming assessment. This study evaluates the uncertainty introduced by two methods of dealing with missing data on temperature trend analysis. <i>Theme: Scientific Evidence</i></p> <p>Thermal Performance Improvement of Lightweight Transportable Buildings: Testing Energy Saving Properties of an Industrial Ceramic Coating David Goodfield, <i>School of Engineering and Information Technology, Murdoch University, Murdoch, Australia</i> Dr. Martin Anda, <i>Department of Environmental Science Division of Science and Engineering, Murdoch University, Perth, Australia</i> Goen Ho, <i>School of Engineering and Information Technology, Murdoch University, Murdoch, Australia</i> <i>Overview:</i> Maintaining thermal comfort levels in lightweight transportable buildings, in all climate zones, consumes large amounts of energy. This can be substantially reduced without modifying the current form of construction. <i>Theme: Technical, Political and Social Responses</i></p> <p>Global Warming: Housing in Bangladesh Delta Area During Floods and Tidal Surges Mustakima Hussain, <i>Department of Architecture, Lund Institued of tecnology, Lund University, Lund, Sweden</i> <i>Overview:</i> Due to climate change 45 cm rise in sea level could lead to the destruction of 75% of the Sundarbans mangroves. A sustainable construction method is proposed here. <i>Theme: Technical, Political and Social Responses</i></p> <p>Accelerating Climate Adaptation in the Lake Superior Watershed: Lessons from the World's Fastest Warming Lake Carl Lindquist, <i>Climate Adaptation and Watershed Protection, Superior Watershed Partnership, Marquette, USA</i> <i>Overview:</i> Lake Superior is the fastest warming lake on the planet. Learn how coastal communities are accelerating the pace of climate planning and implementing adaptation projects that really make a difference. <i>Theme: Technical, Political and Social Responses</i></p>

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15:05-16:45	PARALLEL SESSIONS
Room 131	<p>Social Responses 1</p> <p>Felt Knowledge: Using Critical Pedagogy and Bioregionalism to Form an Empathic and Practical Understanding of Climate Change Consequences Matthew McKinney, <i>Department of English -PhD Candidate -Emphasis in Rhetoric and Composition, The University of Nevada, Reno, Reno, USA</i> <i>Overview:</i> My paper proposes an educational model for cultivating an empathic and practical understanding of climate change. This educational model, in turn, draws from critical pedagogical methodology and bioregional literature. <i>Theme: Technical, Political and Social Responses</i></p> <p>Visualizing Climate Change: Bringing Meaning to Climate Change Science through Local Engagement and Visual Learning Processes Dr. Stephen Sheppard, <i>Collaborative for Advanced Landscape Planning (CALP) Dept. of Forest Resources Management/ School of Architecture and Landscape Architecture, University of British Columbia, Vancouver, Canada</i> Dr. Olaf Schroth, <i>Department of Landscape, University of Sheffield, Sheffield, UK</i> <i>Overview:</i> We summarize findings from climate change studies using visualization-based approaches to engage Canadian communities; then describe action research applying visual media through neighborhood climate change tours and educational video games. <i>Theme: Technical, Political and Social Responses</i></p> <p>Responding to Climate Change through Joint Partnership: Small Farmers and Scientists Seek Ways of Combating Climate Change and Variability in the Okavango Delta of Botswana Dr. Oluwatoyin Dare Kolawole, <i>Okavango Research Institute, University of Botswana, Maun, Botswana</i> <i>Overview:</i> Resource-poor African farmers are already feeling the impact of climate change. Small farmers and weather scientists in the Okavango Delta were brought together to devise means of overcoming the challenges. <i>Theme: Technical, Political and Social Responses</i></p> <p>Women and Climate Change Adaptation in Bangladesh Mumita Tanjeela, <i>Centre for Governance and Public Policy School of Government and International Relations, Griffith University, Queensland, Australia., Brisbane, Australia</i> <i>Overview:</i> Climate vulnerability in Bangladesh is strongly associated with gender relations. Women take responsibilities of climate dependent activities like agriculture, water and food management. Gendered experiences are significant for climate response. <i>Theme: Technical, Political and Social Responses</i></p>
Room 132	<p>Health and Climate</p> <p>Climate Change and Health: Implications for Small Communities in Arid Regions of Australia Dr. Meryl Pearce-Churchill, <i>School of the Environment, Flinders University, Adelaide, Australia</i> Prof. Eileen Willis, <i>Flinders University, Adelaide, Australia</i> Dr. Ben Wadham, <i>Flinders University, Adelaide, Australia</i> Prof. Lynne Eagle, <i>James Cook University, Townsville, Australia</i> David Low, <i>James Cook University</i> <i>Overview:</i> The impact of extreme climate conditions similar to those predicted under climate change scenarios, on human wellbeing is outlined. Those whose livelihood is linked to climate were most affected. <i>Theme: Human Impacts and Impacts on Humans</i></p> <p>The Association between Meteorological Variables and Hospitalizations for Heat Stroke, Heat Syncope, and Heat Exhaustion: Hong Kong from 2002-2011 Dr. William Goggins, <i>School of Public Health and Primary Care, The Chinese University of Hong Kong, Hong Kong, Hong Kong</i> Prof. Emily YY Chan, <i>School of Public Health and Primary Care, The Chinese University of Hong Kong, Hong Kong</i> <i>Overview:</i> This is a time-series analysis of the association between environmental variables including temperature, relative humidity, wind speed, solar radiation and pollutants and hospitalizations for heat stroke/heat syncope/ heat exhaustion. <i>Theme: Human Impacts and Impacts on Humans</i></p> <p>Nutrition-related Health Impacts of Droughts in LMICs: A Review of Literature Kristine Belesova, <i>Department of Social and Environmental Health Research, London School of Hygiene and Tropical Medicine, London, UK</i> Prof. Paul Wilkinson, <i>Department of Social and Environmental Health Research, London School of Hygiene and Tropical Medicine, London, UK</i> <i>Overview:</i> The review of literature demonstrates negative impacts of droughts on human health and nutrition in the developing world. These impacts vary with levels of exposure, vulnerability, and with contextual factors. <i>Theme: Human Impacts and Impacts on Humans</i></p>

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8:30-9:00	REGISTRATION DESK OPEN
9:00-10:30	<p>PLENARY COLLOQUIUM: DR. DOUG LOMBARDI, TEMPLE UNIVERSITY, USA; GALE M. SINATRA, UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES, USA; ROBERT DANIELSON, UNIVERSITY OF SOUTHERN CALIFORNIA LOS ANGELES, USA; NEIL YOUNG, UNIVERSITY OF CALIFORNIA, IRVINE, USA; ABBY BECK, UNIVERSITY OF NEVADA, LAS VEGAS, USA.</p> <p>CLIMATE CHANGE EDUCATION: WARM PROCESSES IN LEARNING ABOUT A HOT TOPIC</p>
10:30-10:45	BREAK
10:45-11:30	PARALLEL SESSIONS
Room 131	<p>Special Session: Documentary Film</p> <p>Documentary Film of Climate Change Adaptation through Shelter-Building and Food Harvesting: A Tr'ondëk Hwëch'in, Gwich'in, and Nisga'a Collaboration</p> <p>Dr. Nancy Mackin, <i>Ethno-ecology, Wilp Wilxo'oskwhl Nisga'a and University of Northern British Columbia, Gitwinksihlkw, Canada</i></p> <p>Dennis Allen, <i>MacKenzie Delta Films, Canada</i></p> <p><i>Overview:</i> In a documentary film, Northwestern Canadian Indigenous Elders teach young people about seasonal harvests, moss-insulated shelters, and other traditions for survival.</p> <p><i>Theme: Human Impacts and Impacts on Humans</i></p>

10:45-11:30	PARALLEL SESSIONS
Room 132	<p>Poster Sessions</p> <p>Alternative Media Counterbalancing Mainstream Media? Alternative Media as Distributors of a "Sense of Urgency" <i>Renée Moernaut, Department of Applied Linguistics, Vrije Universiteit Brussel, Brussels, Belgium</i> <i>Overview:</i> Based on a qualitative framing analysis, we argue that alternative media are remodeling the media discussion on climate change, counterbalancing, as such, the hegemonic frames distributed by the mainstream press. <i>Theme: Technical, Political and Social Responses</i></p> <p>The Compromise of Human Comfort and Quality of Life Due to the Urbanization Mode in a Semi-arid City <i>Rebecca Luna Lucena, Departamento de Geografia da Universidade de Brasília, Brazil, Universidade de Brasília - UNB, Brasília, Brazil</i> <i>Tacio Henrique de Freitas Santos, Departamento de Geografia da UFRN, Universidade Federal do Rio Grande do Norte, Caicó, Brazil</i> <i>Almir Miranda Ferreira, Departamento de Estatística da UFRN, Universidade Federal do Rio Grande do Norte, Caicó, Brazil</i> <i>Ercilia Torres Steinke, Departamento de Geografia, Universidade de Brasília - UNB, Brasília, Brazil</i> <i>Overview:</i> This study's aim was to assess the evolution of registered air temperatures in the city of Caicó/RN/Brazil and to compare soil temperatures in two distinct locations within the city. <i>Theme: Human Impacts and Impacts on Humans</i></p> <p>Water Footprint Calculation and Assessment: Potential Use in Climate Change Impact Evaluation <i>Lucie Landova, Faculty of Humanities, Charles University, Prague, Czech Republic</i> <i>Overview:</i> This is an introduction of water footprint as an indicator of sustainable fresh water use in agricultural production and discussion of its potential for climate change impact evaluation. <i>Theme: Human Impacts and Impacts on Humans</i></p> <p>Creating a Collective Stream towards an Environmentally Friendly Daily Life <i>Dr. Shino Koda, Department of Social and Economic Psychology, Johannes Kepler University Linz, Linz, Austria</i> <i>Overview:</i> This paper is intended to suggest a new conceptual way of environmental activities which can lead to the betterment of pro-environmental behaviours in daily life. <i>Theme: Technical, Political and Social Responses</i></p> <p>Comparing Climate Change Perception of Heterogeneous Farm Households in Semi-arid Region of Ghana <i>Biola K. Badmos, West African Science Service Center on Climate Change and Adapted Land Use (WASCAL), Civil Engineering Kwame Nkrumah University of science and technology, Kumasi, Ghana</i> <i>Dr. Grace B. Villamor, Bonn, Germany</i> <i>Prof. Sampson K. Agodzo, Kumasi, Ghana</i> <i>Prof. Samuel N. Odai, Kumasi, Ghana</i> <i>Samson O. Awopeju, United Nations Convention to Combat Desertification (UNCDD), Germany</i> <i>Overview:</i> This paper identified household types based on their assets (human, natural and financial). Perceptions of climate change were compared, thus providing information that could inform policy. <i>Theme: Human Impacts and Impacts on Humans</i></p> <p>CO2 Emission Reduction from Blast Furnace by Iron-reducing Microorganisms <i>Prof. Motonori Tamura, Center for Industrial and Governmental Relations, The University of Electro-Communications, Chofu, Japan</i> <i>Overview:</i> Microbial reduction of Fe(III) influences the biogeochemical cycles of carbon, and can greatly reduce CO2 Emission in steel making process. Geobacter, Anaeromyxobacter and Proteobacteria were identified as iron-reducing microorganisms. <i>Theme: Scientific Evidence</i></p> <p>Climate Change Adaptation in the Forests of Western Newfoundland: Using Expert Opinion to Assess Vulnerabilities <i>Liam Matthew Miller, Environmental Policy Institute, Memorial University of Newfoundland, Corner Brook, Canada</i> <i>Dr. Micheal van Zyll de Jong, Environmental Policy Institute, Memorial University of Newfoundland, Corner Brook, Canada</i> <i>Overview:</i> This research explores how climate changes is expected to affect forests in Western Newfoundland, what adaptation strategies should be used, and the current capacity to implement the strategies. <i>Theme: Technical, Political and Social Responses</i></p> <p>Solar Energy in Brazil: One Path to Low Carbon Economy in the Northeast <i>Juliana P. Barbosa, GRUPO DE ESTUDOS EM TRABALHO - GET Curso de Mestrado em Economia Centro de Ciências Sociais Aplicadas - Campus I, Universidade Federal da Paraíba - Federal University of Paraíba, JOAO PESSOA, Brazil</i> <i>Overview:</i> The increasing use of solar energy is being encouraged by two different public policies in Paraíba and Pernambuco, northeast of Brazil, in the transition to a low carbon economy. <i>Theme: Technical, Political and Social Responses</i></p>

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10:45-11:30	PARALLEL SESSIONS
	<p>Pesticide Fate in a Changing Climate: A Danish Case Study <i>Signe Rasmussen, Faculty of Science Department of Plants and Environment Section of Environmental Chemistry and Physics, Copenhagen University, Copenhagen, Denmark</i> <i>Overview:</i> This is a risk assessment of pesticide leaching from agricultural soils in the context of climate change. <i>Theme: Human Impacts and Impacts on Humans</i></p> <p>Technological Risks in Environmental Change Due to Climate <i>Sedat Cereci, Fine Arts Faculty, University of Batman, Batman, Turkey</i> <i>Overview:</i> Technological improvements convey lives of people, world changes, climate changes and environment has damage recently. <i>Theme: Technical, Political and Social Responses</i></p> <p>Climate Research and Small Flying Drones as tools to Collect Data and Visual Evidence: Small UAVs for a Cooler World <i>Eric Taylor, Virdao & Terosaur, Huntington Beach, USA</i> <i>Overview:</i> Small unmanned aerial vehicles (UAV- aka "drones") enable climate researchers to collect remote data via cameras and sensors. The paper will provide photos, descriptions, and real-world sUAV applications. <i>Theme: Scientific Evidence</i></p> <p>Climate Change Vulnerability and Affordable Housing in Queensland <i>Andrew Venning, Sustainable Research Centre, The University of the Sunshine Coast, Maroochydore, Australia</i> <i>Overview:</i> An approach to minimise inequities on the vulnerable in climate change, is the legal regime that formulates/ engages society to adapt to environmental and societal change (McDonald 2011, Ruhl 2011, Craig 2010). <i>Theme: Technical, Political and Social Responses</i></p> <p>Mitigating Climate Change through Photovoltaic Adoption: An Integrated SWOT-AHP Analysis <i>Kathrin Reinsberger, ISIS – Institute for Systems Sciences, Innovation & Sustainability Research, University of Graz, Graz, Austria</i> <i>Overview:</i> Based on innovation and decision theory, the aim is to gain insights into strengths, weaknesses, opportunities and threats of photovoltaic technology. <i>Theme: Technical, Political and Social Responses</i></p>
11:30-12:30	LUNCH
12:30-14:10	PARALLEL SESSIONS
Room 121	<p>Change Collaborations</p> <p>Reducing the Embodied Carbon of Construction Projects through the Development of a Product-based Carbon Labelling Scheme <i>Prof. S. Thomas Ng, Department of Civil Engineering, The University of Hong Kong, Hong Kong</i> <i>Christopher To, Construction Industry Council, Hong Kong, Hong Kong</i> <i>Overview:</i> A product-based carbon labelling scheme has been developed to delineate low carbon construction materials which facilitates decision-makers building low carbon construction facilities and assists manufacturers reducing the carbon footprint. <i>Theme: Technical, Political and Social Responses</i></p> <p>Galvanising Climate Ethical Action through Environmental Policies and Multilateral Agreements: Climate Ethics Linked to Environmental Policies <i>Kalpana Murari, Self-Employed, Chennai, India</i> <i>Overview:</i> Climate change requires ethical and collective action from nations, individual states, reinforced by modified lifestyle patterns of individuals. Efforts can be galvanized by developing effective, innovative and strategic environmental policies. <i>Theme: Technical, Political and Social Responses</i></p> <p>Resilience Webs: Climate Change and Food Sovereignty in Southeast New South Wales Australia <i>Dr. George Bell, Research School of Management, College of Economics and Commerce, The Australian National University, Canberra, Australia</i> <i>Dr. Karin Geiselhart, Canberra, Australia</i> <i>Overview:</i> Interlocking community networks working on climate change and food sovereignty illustrate resilience-building webs. Blending theory from sustainable marketing and complex adaptive systems suggests a universally applicable approach. <i>Theme: Technical, Political and Social Responses</i></p>

12:30-14:10	PARALLEL SESSIONS
Room 128	<p>Economics of Climate</p> <p>The Financial System Impediment To Emission Reductions Roger Boyd, <i>B.C. Alberta Social Economy Research Alliance, Toronto, Canada</i> <i>Overview:</i> The current global financial system provides a major impediment to the required greenhouse emission reductions, and will require a fundamental redesign and reorientation. <i>Theme: Technical, Political and Social Responses</i></p> <p>Operationalising Ecological Modernisation Theory Peter J. Glynn, <i>Institute of Sustainable Development, Bond University, Gold Coast, Australia</i> <i>Overview:</i> This paper discusses how ecological economics can be used to develop ecological modernisation from a framework to a structured model for policy development. <i>Theme: Technical, Political and Social Responses</i></p> <p>Economic Consequences of the Climate Change Impacts on Ground Transportation in Atlantic Canada: General Equilibrium Approach Yuri Yevdokimov, <i>Department of Economics, University of New Brunswick, Fredericton, Canada</i> <i>Overview:</i> Climate change impacts on regional ground transportation network and their economic consequences are analyzed within dynamic General Equilibrium Model is the topic of this paper. <i>Theme: Assessing Impacts in Divergent Ecosystems</i></p> <p>Could the UK Economy Be Impacted by an Increase in Tornado Occurrence: A Consequence of Climate Change in the 21st Century Komali Kantamaneni, <i>Faculty of Applied Design and Engineering School of Built and Natural Environment, University of Wales, Trinity Saint David, Swansea, UK</i> Prof. Mike Phillips, <i>Faculty of Applied Design and Engineering School of Built and Natural Environment, University of Wales Trinity Saint David, Swansea, UK</i> Dr. Rhian Jenkins, <i>Faculty of Applied Design and Engineering School of Built and Natural Environment, University of Wales Trinity Saint David, Swansea, UK</i> Judith Oakley, <i>Faculty of Applied Design and Engineering School of Built and Natural Environment, University of Wales Trinity Saint David, Swansea, UK</i> Kelechi Obinna Ibeabuchi, <i>Faculty of Applied Design and Engineering School of Built and Natural Environment, University of Wales Trinity Saint David, Swansea, UK</i> <i>Overview:</i> The aim of this research report is to assess and investigate the recent UK tornadoes' destruction costs and their impacts on national economy. <i>Theme: Technical, Political and Social Responses</i></p>
Room 129	<p>Scientific Evidence</p> <p>A Devils advocacy for Carbon Dioxide: A Minor Effect on World Temperature but a Major, Positive Effect on Vegetation Prof. Joseph Gale, <i>Institute of Life Sciences, The Hebrew University of Jerusalem, Jerusalem, Israel</i> Prof. Nir Shaviv, <i>Rakach Institute, The Hebrew University of Jerusalem, Jerusalem, Israel</i> <i>Overview:</i> Recent studies indicate that the effect of CO2 rise will be much less than models promoted by the IPCC. The rise in CO2 may have already increased vegetation production. <i>Theme: Assessing Impacts in Divergent Ecosystems</i></p> <p>Greenhouse Gas Emissions: Contributions Made by Football League Clubs in England Adekunle Dosumu, <i>School of Biological Sciences, University of Essex, UK</i> <i>Overview:</i> Waste management is one of the major environmental burdens, resulting in greenhouse gas (GHG) emissions. This study estimates GHG emissions from football clubs in the UK. <i>Theme: Scientific Evidence</i></p> <p>Assessment of Carbon Emissions Embodied in South Africa Fruit Supply Chains: Fruit Export to Europe Sifiso Ntombela, <i>Market and Economic Research Centre, National Agricultural Marketing Council, Pretoria, South Africa</i> Dr. Thula Mkhabela, <i>Agribusiness Development, Agribusiness Development Agency, Durban, South Africa</i> <i>Overview:</i> Using British Green House Gas emission accounting standards and following the LCA method, this paper measures the carbon emissions in fruits. <i>Theme: Scientific Evidence</i></p> <p>A Multi-scale Analysis of Climate Change in the Heihe River Watershed, Northwest China Prof. Chansheng He, <i>Center for Dryland Water Resources Research and Watershed Science, Lanzhou University, Lanzhou, China</i> Wenzhen Wu, <i>Lanzhou University, Lanzhou, China</i> Dr. Juan Gu, <i>Center for Dryland Water Resources Research and Watershed Science, Lanzhou University, Lanzhou, China</i> Dr. Lanhui Zhang, <i>Center for Dryland Water Resources Research and Watershed Science, Lanzhou University, Lanzhou, China</i> <i>Overview:</i> This paper analyzes the long-term trend of the climate and hydrology at the monthly, seasonal and annual scales in the Upper Reach of the Heihe River Watershed, Northwest China. <i>Theme: Scientific Evidence</i></p>

SATURDAY, 28 JUNE

12:30-14:10	PARALLEL SESSIONS
Room 130	<p>Technical Responses</p> <p>Are Protected Areas an Effective Way to Help Mitigate Climate Change? Carbon Sequestration Model Comparison of Protected Area versus Traditional Forestry in a Temperate Forest Robert Cameron, <i>Protected Areas and Ecosystems Branch, Nova Scotia Department of Environment, Halifax, Canada</i> <i>Overview:</i> Carbon forest model results for existing and proposed protected areas were compared to results if these areas were managed using traditional forestry. <i>Theme: Technical, Political and Social Responses</i></p> <p>Earth 2075: Challenges for Restoring 280 ppm CO2 in the 21st Century Dr. Kenneth Klabunde, <i>Climate Restoration Technologies, Inc., Omaha, USA</i> Dr. Robert C. Fry, <i>Climate Restoration Technologies, Inc., USA</i> Madeline Ison, <i>Climate Restoration Technologies, Inc., USA</i> Dr. Sambhudas Chaudhuri, <i>Climate Restoration Technologies, Inc., USA</i> Dr. Gregory Fry, <i>Climate Restoration Technologies, Inc., USA</i> Barry Wroobel, <i>Climate Restoration Technologies, Inc., USA</i> Dr. Michael Routh, <i>Climate Restoration Technologies, Inc., USA</i> <i>Overview:</i> Revised CO2 emissions and capture targets will be reviewed for restoring 280 ppm by 2075. Accumulation impact (ppm CO2) of both hitting and missing these targets will be projected. <i>Theme: Technical, Political and Social Responses</i></p> <p>The Risk Perception of Coastal Officials as a Determinant of Adaptive Action Brian Bulla, <i>Department of Forestry & Environmental Resources in the College of Natural Resources, North Carolina State University, Raleigh, USA</i> <i>Overview:</i> This study examines the risk perception of North Carolina coastal officials, and questions how those perceptions influence the willingness or reticence of officials to initiate adaptive action regarding climate change. <i>Theme: Technical, Political and Social Responses</i></p> <p>Achieving Low Emissions Growth in Vietnam Agriculture: Mitigation Technology Adoption Constraints Dr. Anna Belova, <i>Environment and Resources Division, Abt Associates Inc., Bethesda, USA</i> Dr. Tulika Narayan, <i>International Economic Growth, Abt Associates Inc., Bethesda, USA</i> <i>Overview:</i> To support Vietnam's Low Emission Development Strategies in agriculture, we analyzed emissions-relevant characteristics, costs, and adoption constraints for rice and livestock production technologies using representative farmer surveys in three provinces. <i>Theme: Technical, Political and Social Responses</i></p>

SATURDAY, 28 JUNE

12:30-14:10	PARALLEL SESSIONS
Room 131	<p>Impacts on Humans 2</p> <p>The Epidemic of Human Adiposity and Its Impact on the Environment Dr. Jianhong Xue, <i>Department of Agricultural Economics, Northwest A&F University, Yangling, China</i> Jieqiong Wei, <i>Department of Agricultural Economics Department of Applied Mathematics, Northwest A&F University, Yangling, China</i> Wenjing Zhang, <i>Department of Agricultural Economics, Northwest A&F University, Yangling, China</i> Dr. Khadim Hussain, <i>Department of Agricultural Economics, Northwest A&F University, Yangling, China</i> Xuexi Huo, <i>College of Economics and Management, Yangling, China</i> <i>Overview:</i> While delineating the pathways linking overweight and obesity to environmental problems, the proposed study estimates the environmental impact of adiposity in terms of greenhouse gas emission for a given population. <i>Theme: Human Impacts and Impacts on Humans</i></p> <p>Super Typhoon Haiyan: Global Warming Concerns, Resource Loss, and Psychological Distress among Survivors in the Philippines Dr. David Sattler, <i>Western Institute for Social Research, Department of Psychology, Western Washington University, Bellingham, USA</i> Richard Atienza, <i>Department of American Ethnic Studies, University of Washington, Seattle, USA</i> <i>Overview:</i> Super Typhoon Haiyan devastated the Philippines. We interviewed 335 survivors in coastal villages. Concerns about global warming's contribution to typhoon intensity and future typhoon threats were associated with posttraumatic stress. <i>Theme: Human Impacts and Impacts on Humans</i></p> <p>Implications of Climate Change Impacts in Rural Coastal Communities with Aging Populations: Cases from Nova Scotia, Canada Dr. Patricia Manuel, <i>School of Planning, Dalhousie University, Halifax, Canada</i> Prof. Eric Rapaport, <i>School of Planning, Dalhousie University, Halifax, Canada</i> Dr. Janice Keefe, <i>Department of Family Studies and Gerontology, Mount Saint Vincent University, Halifax, Canada</i> <i>Overview:</i> Rural coastal communities with aging populations have special challenges of vulnerability to flooding. We identify infrastructure, design and policy challenges and opportunities for age-friendly coastal communities facing climate change impacts. <i>Theme: Human Impacts and Impacts on Humans</i></p> <p>The Association between Meteorological Parameters and Salmonella, Norovirus and Rotavirus Infection in Hong Kong Pin Wang, <i>School of Public Health and Primary Care, The Chinese University of Hong Kong, Hong Kong, Hong Kong</i> <i>Overview:</i> This is a time-series analysis on the association between several meteorological parameters and salmonella, norovirus and rotavirus infection in Hong Kong from 2002 to 2011 using generalized additive models. <i>Theme: Human Impacts and Impacts on Humans</i></p>
Room 132	<p>COLLOQUIUM</p> <p>Climate Change Certification: Be Part of the Start Simon Cavendish, <i>Climate Change Special Interest Section, Environment Institute of Australia and New Zealand (EIANZ), Brisbane, Australia</i> Maia Cavendish, <i>Brisbane, Australia</i> Tess McGahan, <i>Brisbane, Australia</i> Rosemary Lancaster, <i>Brisbane, Australia</i> <i>Overview:</i> As climate change practice evolves, the community needs assurance that practitioners are competent. Australian and New Zealand professionals have developed a certification scheme. Proficiencies need refinement from practitioners like you! <i>Theme: Technical, Political and Social Responses</i></p>
14:10-14:25	BREAK

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14:25-16:05	PARALLEL SESSIONS
Room 121	<p>Daily Life and Climate Change</p> <p>Climate Shocks and Human Capital: The Impact of Natural Disasters on Students' Performance on Standardized Tests Mauricio Giovanni Valencia-Amaya, <i>Universidad de Antioquia, Medellin, Colombia</i> <i>Overview:</i> Using a difference-in-difference approach, this paper investigates the impact of climate shocks on qualitative measures of human capital, such as test scores results. <i>Theme: Human Impacts and Impacts on Humans</i></p> <p>There is No Place Like Home: Pacific Islanders and Relocation Brook Meakins, <i>Drowning Islands, Berkeley, USA</i> <i>Overview:</i> This paper analyzes two historic, forced relocations from the Pacific, and contrasts these relocations with a modern, voluntary relocation in Fiji. <i>Theme: Human Impacts and Impacts on Humans</i></p> <p>Climate Change and Policy in Mexico: The Case of Water Supply in the Chapala Lake Basin Dr. Salvador Peniche Camps, <i>Economics Department, at the University Center for Management and Economic Sciences, University of Guadalajara, Zapopan, Mexico</i> Dr. Manuel Guzman, <i>Limnology Institute, University of Guadalajara, Ajjic, Afghanistan</i> <i>Overview:</i> The paper explores the impacts of climate change in the most important lake basin in Mexico (the Chapala lake), from the perspective of the water supply policy. <i>Theme: Human Impacts and Impacts on Humans</i></p>
Room 128	<p>Ecosystems</p> <p>Integrating Ecological Genetics and Population Dynamic Modelling to Evaluate Persistence of Endangered Swamp Orchids in a Changing World Laura Simmons, <i>GeneCology Research Centre, University of the Sunshine Coast, Sippy Downs, Australia</i> Dr. Alison Shapcott, <i>GeneCology Research Centre, University of the Sunshine Coast, Sippy Downs, Australia</i> <i>Overview:</i> Our case study is an endangered Australian orchid species with narrow ecological tolerances and use of integrated population dynamic studies and ecological genetics to model coastal ecosystem climate change transitions. <i>Theme: Assessing Impacts in Divergent Ecosystems</i></p> <p>Projected Impacts of Climate Change on Grizzly Bear Habitat in Canada David Laskin, <i>Dept. of Geography, University of Calgary, Calgary, Canada</i> <i>Overview:</i> A combination of climate-controlled growth chamber experiments, ground-camera network observations, and satellite-derived phenology models were used to predict the impact of climate scenarios on grizzly bear habitat in Alberta, Canada. <i>Theme: Assessing Impacts in Divergent Ecosystems</i></p> <p>Adaptation Pathways for Coastal Settlements in Victoria, Australia Murray Herron, <i>School of Architecture and Built Environment, Faculty of Science Engineering and Built Environment, Deakin University, Geelong, Australia</i> Phillip B. Roös, <i>School of Architecture and Built Environment, Faculty of Science Engineering & Built Environment, Deakin University, Geelong, Australia</i> <i>Overview:</i> The Victorian coastline is in peril due to population growth and future climate change impacts. This paper identifies adaptation pathways for sustainable development planning with visualisation models of coastal recession. <i>Theme: Human Impacts and Impacts on Humans</i></p> <p>Permafrost Thaw, Biogeochemical Cycling, and Plant Biology in the Alaskan Taiga Rebecca Finger, <i>Department of Biology and Wildlife, University of Alaska Fairbanks, Fairbanks, USA</i> Dr. Eugenie Euskirchen, <i>Institute of Arctic Biology, University of Alaska Fairbanks, Fairbanks, USA</i> Dr. Merritt Turetsky, <i>Department of Integrative Biology, University of Guelph, Guelph, Canada</i> <i>Overview:</i> Climate change is creating widespread permafrost thaw and drastically changing the boreal forest landscape. This study investigates the effects of permafrost thaw on biogeochemical cycling and local plant communities. <i>Theme: Assessing Impacts in Divergent Ecosystems</i></p>

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14:25-16:05	PARALLEL SESSIONS
Room 129	<p>Art, Media, and Climate</p> <p>Environmental Art as Medium for Climate Change Communication: A Festival's Impact on Its Audience Megan Marks, <i>Faculty of Arts and Business, University of the Sunshine Coast, Marcus Beach, Australia</i> <i>Overview:</i> Environmental art can provide an imaginative format for delivering climate change messages. This quantitative/qualitative research explored the impact of a government-initiated environmental art festival in changing people's environmental behaviours. <i>Theme: Technical, Political and Social Responses</i></p> <p>Climate Change Art: Production of a Different Subjectivity via the Fusion of Climate Science and Visual Art Prof. Roslyn Taplin, <i>Australian Centre for Sustainable Mining Practices (ACSMP), University of New South Wales, Sydney, Australia</i> <i>Overview:</i> This paper discusses the role of contemporary art in mediating the urgency of climate change via new ethico-aesthetic compositions of affect that may pave a way for future paradigm shift. <i>Theme: Technical, Political and Social Responses</i></p> <p>The Changes in Japanese Media Coverage of Climate Change Policy Monika Ostrowska, <i>Osaka School of International Public Policy, Osaka University, Osaka, Japan</i> <i>Overview:</i> Scale and content analysis of major national newspapers shows how the attention to climate change policy options has changed over time. Characteristics of Japan's policy-making and media's attention are examined. <i>Theme: Technical, Political and Social Responses</i></p>
Room 130	<p>Political Responses 2</p> <p>The Climate Change Controversies on a Global Scale: Sciences and Its Ideologies, 1992-2012 Ricardo M. Figueiredo F., <i>Federal University of Minas Gerais (History Post-Graduation Program), University Of Minas Gerais, Belo Horizonte, Brazil</i> <i>Overview:</i> Despite what the IPCC has been asserting on a global climate change it isn't a consensus among the climatologists. In this matter, this paper analyzes some of these controversies. <i>Theme: Scientific Evidence</i></p> <p>Sequestration and Substitution: How Do Stakeholders in the UK Woodland Sector View Their Role in Climate Change Mitigation? Dr. Clare Hall, <i>Research Division, SRUC, Edinburgh, UK</i> <i>Overview:</i> This research aims to investigate UK woodland sector stakeholder views, awareness and experience of carbon sequestration and substitution activities and the variables that may influence such views and awareness. <i>Theme: Technical, Political and Social Responses</i></p> <p>Greenpeace, Climate Change, and the Battle for the Arctic Dr. James Everett Hein, <i>Media and Communication, Erasmus University Rotterdam, Rotterdam, Netherlands</i> <i>Overview:</i> In this paper I report the innovative online and offline communication tactics used by Greenpeace in their climate change campaign against Royal Dutch Shell's plans to drill in the Arctic. <i>Theme: Technical, Political and Social Responses</i></p> <p>Developing Adaptation Pathways for NRM in Southern Australia: A Research-practice Collaboration Dr. Karyn Bosomworth, <i>Centre for Risk and Community Safety Climate Change Adaptation Program, RMIT University, Melbourne, Australia</i> Dr. Andrew Harwood, <i>Geography and Environmental Studies, University of Tasmania, Hobart, Australia</i> Nooshin Toorabi, <i>Global, Urban and Social Studies, RMIT University, Melbourne, Australia</i> Dr. Peat Leith, <i>Tasmanian Institute of Agriculture, University of Tasmania, Hobart, Australia</i> Dr. Phillip Wallis, <i>Monash Sustainability Institute, Monash University, Melbourne, Australia</i> <i>Overview:</i> This paper is an action-research project that draws on the concept of adaptation pathways to support natural resource managers in developing and implementing adaptive climate change plans. <i>Theme: Technical, Political and Social Responses</i></p>

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14:25-16:05	PARALLEL SESSIONS
Room 131	<p>Social Responses 2</p> <p>The Justification Of Negative Impacts On Climate Change: An Exploration Of Discursive Strategies Used By Industrial Emitters David Talbot, <i>Département de Management, Université Laval, Quebec, Canada</i> Dr. Olivier Boiral, <i>Département de Management, Université Laval, Québec, Canada</i> <i>Overview:</i> The paper explores the impression management tactics used by industrial companies to justify the impact of their operations on global warming. <i>Theme: Technical, Political and Social Responses</i></p> <p>The Social Responses to Impacts of Climate Change in Thailand: A Preliminary Study of Adaptive Strategies Used by Communities Affected by Landslides and Flooding Since 2011 Somporn Khunwishit, <i>Department of Public Administration, Faculty of Management Sciences, Prince of Songkla University, Hat Yai, Thailand</i> <i>Overview:</i> This paper examines how Thai communities develop environmental policies, disaster management measures and social mechanisms to deal with natural disasters, given their experience in facing landslides and flooding in 2011. <i>Theme: Technical, Political and Social Responses</i></p> <p>The Resiliency Paradigm: Examining the Ground between Sustainability and Adaptability Andrew Bergel, <i>The Department of Political Science, Dalhousie University, Halifax, Canada</i> Ben O'Bright, <i>The Department of Political Science, Dalhousie University, Halifax, Canada</i> <i>Overview:</i> This paper will examine the policy combination of sustainability and adaptability currently underway in New York City, USA. <i>Theme: Technical, Political and Social Responses</i></p>

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14:25-16:05	PARALLEL SESSIONS
Room 132	<p>Climates at Risk</p> <p>Social Costs of Industrial Growth: Which American States Manufacture More Efficiently in Terms of Air Pollution? Dr. James Tanoos, <i>Business & CIS Dept., Saint Mary-of-the-Woods College, Terre Haute, USA</i> <i>Overview:</i> Using economic data and recent toxic release findings, this paper describes which American states and which region of the country manufacture products in the most sustainable, green efficient fashion. <i>Theme: Scientific Evidence</i></p> <p>Agreements on Climate Change between the South and North Korea Dr. Misun Park, <i>Research Institute for Agriculture and Life Sciences, Seoul National University, Seoul, South Korea</i> Prof. Hyowon Lee, <i>School of Law, Seoul National University, Seoul, South Korea</i> <i>Overview:</i> This study aims to review environmental agreements between the South and North Korea and provide some instructions for protocol of agreements on climate change between the South and North Korea. <i>Theme: Scientific Evidence</i></p> <p>Earth 2075: Energy and Transportation as Primary Engines for Climate Restoration and Ocean Revitalization Dr. Robert C. Fry, <i>R&D, Climate Restoration Technologies, Inc., Omaha, USA</i> Dr. Sambhudas Chaudhuri, <i>R&D - concept development, Climate Restoration Technologies, Inc., USA</i> Dr. Kenneth Klabunde, <i>R&D, Climate Restoration Technologies, Inc., Manhattan, USA</i> Madeline Ison, <i>R&D, Climate Restoration Technologies, Inc., Omaha, USA</i> Dr. Michael Routh, <i>Board of Directors, Climate Restoration Technologies, Inc., Boulder, USA</i> Barry Wroobel, <i>R&D, Climate Restoration Technologies, Inc., Moorpark, USA</i> Dr. Steven Fry, <i>R&D, Climate Restoration Technologies, Inc., Merida, Mexico</i> Dr. Gregory Fry, <i>Director, Climate Restoration Technologies, Inc., Omaha, USA</i> Dr. Steven Hughes, <i>R&D, Climate Restoration Technologies, Inc., Littleton, USA</i> Grant Gower, <i>Administration, Climate Restoration Technologies, Inc., Newbury Park, USA</i> Benjamin Fry, <i>R&D, Climate Restoration Technologies, Inc., Omaha, USA</i> <i>Overview:</i> Fossil fuel consumption may be transformed from global warming and ocean acidification culprit into a primary means of climate restoration and ocean revitalization by driving two-stage ocean algal blooming. <i>Theme: Technical, Political and Social Responses</i></p> <p>Impact of the Scaling Behavior of Global Sea Surface Temperature Yee Leung, <i>Department of Geography and Resource Management, The Chinese University of Hong Kong, Hong Kong, China</i> Ming Luo, <i>Department of Geography and Resource Management, The Chinese University of Hong Kong, Hong Kong, China</i> <i>Overview:</i> This paper discusses the temporal scaling behaviors of the monthly sea surface temperature (SST) anomalies from January 1856 to December 2011 and their impacts on climate dynamics. <i>Theme: Scientific Evidence</i></p>
16:05-16:10	BREAK
16:10-16:40	CONFERENCE CLOSING: HOMER STAVELY, COMMON GROUND PUBLISHING, USA

LIST OF PARTICIPANTS

Arianna	Abram	Sea Education Association	USA
Sandra	Acosta	University of La Salle	Colombia
Abdullah	Almisnid	Department of geography	Saudi Arabia
Biola K.	Badmos	West African Science Service Center on Climate Change and Adapted Land Use	Ghana
Juliana P.	Barbosa	Universidade Federal da Paraíba	Brazil
Abby	Beck	University of Nevada Las Vegas	USA
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Kristine	Belesova	London School of Hygiene and Tropical Medicine	UK
George	Bell	The Australian National University	Australia
Anna	Belova	Abt Associates Inc.	USA
Andrew	Bergel	Dalhousie University	Canada
Bosko	Blagojevic	University of Novi Sad	Serbia and Montenegro
Samuel	Bockenbauer	U.S. Congress	USA
Olivier	Boiral	Université Laval	Canada
Karyn	Bosomworth	RMIT University	Australia
Roger	Boyd	B.C. Alberta Social Economy Research Alliance	Canada
Asher	Brenner	Ben-Gurion University of the Negev	Israel
Brian	Bulla	North Carolina State University	USA
Robert	Cameron	Nova Scotia Department of Environment	Canada
Maia	Cavendish	EnviroPartners Pty Ltd	Australia
Simon	Cavendish	Environment Institute of Australia & New Zealand	Australia
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Robert C.	Fry	Climate Restoration Technologies, Inc.	USA
Joseph	Gale	The Hebrew University of Jerusalem	Israel
Peter J.	Glynn	Bond University	Australia
William	Goggins	The Chinese University of Hong Kong	Hong Kong
Francisco	Gonzalez	University of New South Wales	Australia
David	Goodfield	Murdoch University	Australia
Michael David	Gottfried	Michigan State University	USA
Heather W.	Hackman	Hackman Consulting Group	USA

Clare	Hall	SAC	UK
Madison	Hall	Michigan State University	USA
Nick	Harvey	The University of Adelaide	Australia
Chansheng	He	Lanzhou University	China
James Everett	Hein	Erasmus University Rotterdam	Netherlands
Murray	Herron	Deakin University	Australia
Stephné	Herselman	University of South Africa	South Africa
Kirsty	Hitchen	Baillie Gifford	UK
Carole	Huber	University of Colorado, Colorado Springs	USA
Thomas	Huber	University of Colorado, Colorado Springs	USA
Mustakima	Hussain	Lund University	Sweden
Sorin	Ilie	University of Pitesti	Romania
Sunakshi	Jaiswal	Sona College of Technology	India
Komali	Kantamaneni	University of Wales, Trinity Saint David	UK
Chien-Yu	Kao	National Chung Cheng University	Taiwan
Justas	Kažys	Vilnius University	Lithuania
Jenny Rebecca	Kehl	University of Wisconsin, Milwaukee	USA
Somporn	Khunwishit	Prince of Songkla University	Thailand
Dong-Su	Kim	Ewha Womans University	South Korea
Shino	Koda	Johannes Kepler University Linz	Austria
Oluwatoyin Dare	Kolawole	University of Botswana	Botswana
Kerstin	Krellenberg	Helmholtz-Centre for Environmental Research	Germany
Cassandra Elizabeth	Kuyvenhoven	Queen's University	Canada
Rosemary	Lancaster	EnviroPartners Pty Ltd	Australia
Lucie	Landova	Charles University	Czech Republic
David	Laskin	University of Calgary	Canada
Hyowon	Lee	Seoul National University	South Korea
Teang Shui	Lee	Universiti Putra Malaysia	Malaysia
Yee	Leung	The Chinese University of Hong Kong	China
Carl	Lindquist	Superior Watershed Partnership	USA
Doug	Lombardi	Nevada Regional Professional Development Program	USA
Rebecca Luna	Lucena	Universidade de Brasília	Brazil
Nancy	Mackin	Wilp Wilxo'oskwhl Nisga'a & University of Northern British Columbia	Canada
Patricia	Manuel	Dalhousie University	Canada
Megan	Marks	University of the Sunshine Coast	Australia
Luciano	Massetti	Institute of Biometeorology - National Research Council	Italy
Miriam	Matejova	University of British Columbia	Canada
Lazaros	Mavromatidis	Ecole Nationale des Travaux Publics de l'Etat	France
Tess	McGahan	AYCC	Australia
Matthew	McKinney	The University of Nevada, Reno	USA
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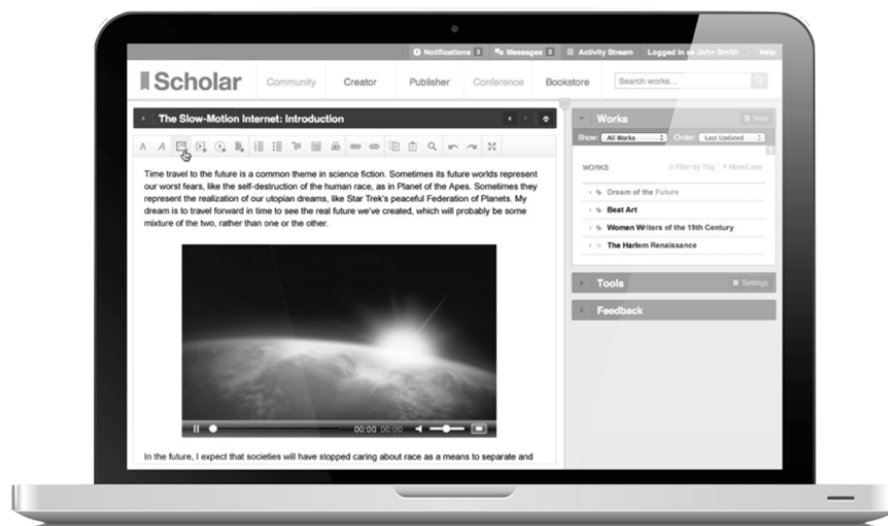
Liam Matthew	Miller	Memorial University of Newfoundland	Canada
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Masego	Moobi	National Agricultural Marketing Council	South Africa
David	Moton	Bakersfield College	USA
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Sifiso	Ntombela	National Agricultural Marketing Council	South Africa
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Eric	Rapaport	Dalhousie University	Canada
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Kathrin	Reinsberger	University of Graz	Austria
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Erin	Steurer	Department of State	USA
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Alan H.	Teramura	University of Hawaii at Manoa	USA
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Shiping	Wang	Chinese Academy of Science,	China
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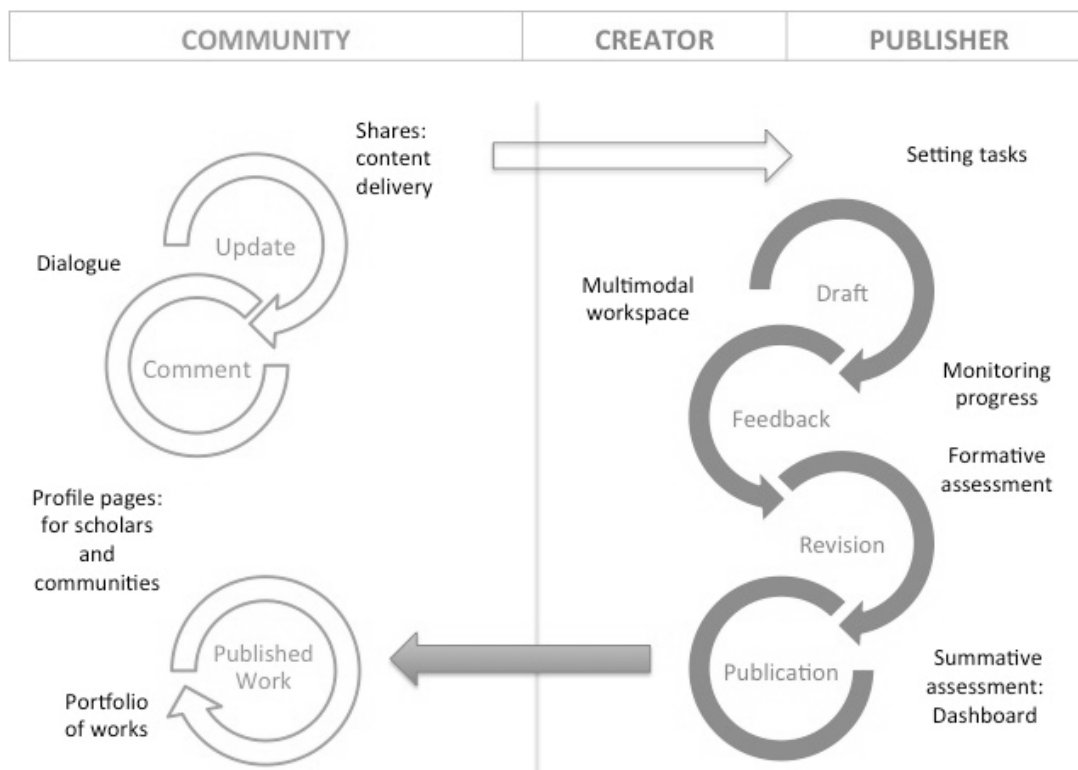
Scholar is a social knowledge platform that *transforms the patterns of interaction in learning by putting students first*, positioning them as knowledge producers instead of passive knowledge consumers. *Scholar* provides scaffolding to encourage making and sharing knowledge drawing from multiple sources rather than memorizing knowledge that has been presented to them.

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