2020 ICSD Parallel Session Topics

Children, Youth and the SDGs

The universal nature of the SDGs demands a focus on, and engagement with, children and youth, who represent the future of sustainable development. Children and youth figure centrally in addressing each of the 17 SDGs, yet UNICEF estimates that 75% of child-related SDG indicators are either missing data or don't show adequate momentum for achievement by 2030. This panel invites papers on theories and practices that consider the needs, interests, and voices of children and youth, as future leaders in sustainable development. *Susan Murphy & Karen Brown*

Climate Change Adaptation and Disaster Risk Reduction for Cities

Climate Change Adaptation (CCA) and Disaster Risk Reduction (DRR) priorities, when cross-cut with the city's development sectors in formulating solutions for the city's problems, ensure the sustainable development and resilience of such cities. Thus, it is imperative to mainstream CCA and DRR in the city's comprehensive development planning. *Tabassam Raza, Carmelita Liwag, & Jun Castro*

Cross-cutting, just solutions towards the sustainability of the energy system

Energy is one of the main sources of climate impact, as well as a source of environmental, economic, and social sustainability concerns on a global scale. Cross cutting solutions are much needed in this core sector to achieve this century's ambitious sustainability goals. This session will explore innovative solutions to decarbonize the energy system that will increase its resiliency without creating new social issues. *Maurizio Cellura, Francesco Guarino, Tatyana Lanshina, & Igor Makarov*

Democratising Renewable Energy in the Global South

Several studies have shown that increased electricity access advances socio-economic development, brings about rapid industrialization, reduces poverty, improves food security, and increases quality of life and social well-being of the population. This session seeks analyses of the obstacles to achieving universal access

to modern energy services in the Global South, and solutions to providing services in resource-poor settings, particulary field and pilot studies. *Femi Oyeniyi, Labode Popoola, Ngozi Ifeoma Odiaka, & Famous Chiemerie*

Economics and Demography of Natural Disasters and Disease Outbreaks

As climate change rapidly continues, so does the consequence of increased natural disasters. This session will explore the populations who are affected by these disasters and identify best practices in resiliency. *Hiroaki Matsuura & Keiichi Sato*

Effective Industrial Policy to Achieve the SDGs

Effective industrial policy can have many benefits, such as reducing poverty and safeguarding the enviroment, but is dependent on systems including quality education and healthcare. This session will explore the design and implementation of cross-cutting policies to enable sustainable, inclusive industrial development to support SDG achievement. *Pádraig Carmody & James Murphy*

Food Production, Waste Management and the Circular Economy

Food production is a major source of greenhouse gas emissions and waste. However, in the context of a circular economy food losses and waste become potential resources. This session will examine how the circular economy, food production, and waste management can meet to provide solutions to the environmental issues posed by food production and waste. *John Dilyard, Sintia Molina, Sarah K. Ku*

Gender-based Innovations for Equitable SDG Outcomes

We use the word "gender" to denote both biological characteristics and socio-cultural factors that can be shown through evidence as influencing results and differentiating quality of outcomes for women and men. As a cross-cutting issue, gender analyses should be applied across clusters of interdependent SDGs. Our session will show what role different stakeholders can play to advance this. *Elizabeth Pollitzer, Heisook Lee, & Ylann Schemm*

ICT Standards for the Sustainable Development Goals

International emerging technology standards are living documents evolving alongside the technologies. As ICT becomes more intertwined with development practices, how can standardization in AI, Big Data, and IoT help achieve the SDGs? *Ray Walshe & Jon Mason*

Indigenous approaches to the Sustainable Development Goals

Indigenous approaches to sustainable development relates to the importance of seeking diverse models through respectful partnerships with indigenous communities. Doing work in a "good way" is central to the indigenous way of practice. This session will examine case studies and projects undertaken through such partnerships, with a special interest in applying traditional models in both urban and rural settings. *Dave Wilsey & Tamara Dionne Stout*

Interdisciplinary Approaches to Teaching Sustainable Development

Cross-cutting solutions for sustainable development require creative thinking and thoughtful post-secondary educational systems. Interdisciplinary approaches across university-level education allow students to learn the deep interrelation between people, planet, and profit, and should be further examined for the Decade of Action. This session will present and discuss innovative ways of delivering education that enables and empowers graduates and future decision-makers to become the change-makers the world needs. *Meredith Storey, Lucia Rodriguez, Martin Lehmann, Aida Guerra, Alicia Powers, and Kate Thornton*

Multidisciplinary Energy Education for Societal Well-being

Transforming both the societal and physical dimensions of energy systems is fundamental for addressing climate change, community welfare, and environmental justice. This session will extract lessons from diverse examples of multidisciplinary energy education, particularly university-level and online forums, that hold promise for inspiring and equipping a wide range of learners to help society navigate energy transitions in the decade of action. *Amanda Graham, Greg Poelzer, & Jennie Stephens*

Nature Based Solutions to Climate Change

Nature based solutions are natural ways of remedying environmental problems and can play an integral roll in reversing the effects of climate change. This session will explore how to induce sustainable consumption with the help of nature and technology. *Patrick Paul Walsh & Simone Cresti*

Safe, Affordable, and Inclusive Transport under the SDGs

The provision of inclusive transportation is essential to leaving no one behind in pursuit of the SDGs. Understanding and accounting for how transport impacts people of different ages, incomes, genders, and abilities is required to ensure equitable access to economic and social aspects of development as well as resiliency in the face of complex environmental pressures. This session will feature presentations that emphasize how safe and inclusive transportation can and should be a part of plans, policies, and programs aimed at advancing one or all of the SDGs. *Steven Jones, Tina Kempin Reuter*

Socio-technical Solutions for Water-Energy-Food Security Challenges

Several SDGs are inextricably linked, particularly those relating to water, energy, and food. The proposed session will look at innovative socio-technical solutions to accellorate SDG progress at all scales. *Bassel Daher & Rabi H. Mohtar*

Sustainable Land Use Planning

Sustainable land use planning is about making conscientious decisions to safeguard soil, water, and living organisms for the long-term production of goods to meet changing human needs, while ensuring the maintenance of ecosystems and the services they provide. Because of the inter-dependency and interrelatedness of soil, water, the atmosphere, and human systems, cross-cutting solutions are essential for achieving the SDGs. *Sathaporn Monprapussorn & Teerawet Titseesang*

Sustainable Ports and the Circular Economy

Ports are places where multiple systems collide – shipping, energy, waste, tourism, and transport; Further, they are emissions hotspots. Maritime hubs can be catalysts for reversing the fast-growing emissions from international shipping if cross-cutting solutions are applied. *Phoebe Koundouri, Nicolaos Theodossiou, & Andreas Papandreou*

Turning Supply Chains Into Engines to Support the SDGs

A consequence of globalization has been the creation of highly complex cross-national supply chains on which companies, particularly multinational enterprises (MNEs), depend on to produce and distribute goods and services. Because the entities that make up these supply chains often are those which can most benefit from achieving the SDGs, such as 1 and 8, examining the ways in which the achievement of the SDGs can be made a core objective of the management of a supply chain should lead to change-making action. *John Dilyard & Shasha Zhao*

Universities Driving Collaborative Solutions for the Decade of Action

This session will explore how universities are transforming themselves or operating in new ways to scale up impact and support societal transformations during the decade of action. In this session, we will emphasize studies that look at cross-cutting solutions, multi-stakeholder processes, and the internal enabling conditions that allow transformations to be taken to scale. The format of this session will be slighty different, with presentations of only 5 to 7 minutes to allow for more discussion and dialogue. Further, the submission of a conference paper is optional. *Julio Lumbreras, Tahl Kestin, & Andrea Cuesta Claros*