Our Changing World: BioPhysical Economic Models for the Anthropocene

ISBPE 2021 Schedule

	Tues., Sept. 7th	Wed., Sept. 8th	Thur., Sept. 9th	Frid., Sept. 10th
7:45 - 8:00 am	Admission to Online Conference Room	Admission to Online Conference Room	Admission to Online Conference Room	Admission to Online Conference Room
Morning Session 8:00 – 11:00am Eastern Daylight Time	**Climate Change, Renewables and the Political Economy.**	**True Energy Costs and EROI**	**Modeling Energy, Economics and Development**	**Biophysical Economics in a world defined by SARS2-CoV2 and Climate Change.**
8:00 - 8:05	5 Min Transition	5 Min Transition	5 Min Transition	5 Min Transition
8:05 - 8:35	STUMBLING TOWARDS NET ZERO – the case of the UK Michael Jefferson	Global long-term EROI of oil and gas: a net-energy perspective on the low-carbon energy transition Louis Delannoy	Financing the energy transition: a biophysical, stock-flow consistent approach at a global scale Pierre Jacques	Past Crises, Present Crisis: Past Civilizations' Decision Paths Through Times of Disruption Joel Gunn
8:35 - 8:45	Question and Answer Michael Jefferson	Question and Answer Louis Delannoy	Question and Answer Pierre Jacques	Question and Answer Joel Gunn
8:45 - 8:50	5 Min Transition	5 Min Transition	5 Min Transition	5 Min Transition
8:50 - 9:20	Financial stability in response to climate change in a northern temperate economy Kayla Stan	Analysis of the ESOI of subtechnologies of batteries for electric vehicles Iñigo Capellán-Pérez	Investigating Decoupling and Structural Dynamics via the "HARMONEY" Biophysical Economic Growth Model Carey King	A Research Agenda For Biophysical Economics: Filling in the Missing Pieces Garvin Boyle
9:20 - 9:30	Question and Answer Kayla Stan	Question and Answer Iñigo Capellán-Pérez	Question and Answer Carey King	Question and Answer Garvin Boyle
9:30 - 9:35	5 Min Transition	5 Min Transition	5 Min Transition	**Annual Business Meeting And ISBPE Elections**
9:35 - 10:05	How achievable is the large scale electrification of the US car industry? Roger Baker	Estimating the EROI of Canadian mined oil sands, 1997-2017 Charles Guay	The role of life cycle assessment… based net energy analysis indicators in assessing impact categories listed within the UN Sustainable development goals (SDGs) Oludunsin Arodudu	
10:05 - 10:15	Question and Answer Roger Baker	Question and Answer Charles Guay	Question and Answer Oludunsin Arodudu	
10:15 - 10:20	5 Min Transition	5 Min Transition	5 Min Transition	
10:20 - 10:50	Why the energy transition is not enough Benjamin Leiva	Speaking science to power: what I've learned in 50 years of doing it John Holdren	Embodied energy and socio-metabolic modeling Jasmine Badiee	
10:50 - 11:00	Question and Answer Benjamin Leiva		Question and Answer Jasmine Badiee	
11:00 - 12:00pm	**Facilitated Group Discussion**	**Facilitated Group Discussion**	**Facilitated Group Discussion**	Conference Adjourns
12:00 - 1:00pm	Break for Lunch	Break for Lunch	Break for Lunch	
Afternoon Session 1:00 – 4:00 pm Eastern Daylight Time	**Climate Change, Renewables and the Political Economy**	**True Energy Costs and EROI**	**Modeling Energy, Economics and Development**	
1:00 - 1:05	5 Min Transition	5 Min Transition	5 Min Transition	
1:05 - 1:35	History as a guide to understanding the future of energy storage Graham Palmer	Modeling the change in the dynamic EROI of the global energy system during the transition to renewable energies Iñigo Capellán-Pérez	Hubbert Linearization: A Tale of Three Curves. James Case	
1:35 - 1:45	Question and Answer Graham Palmer	Question and Answer Iñigo Capellán-Pérez	Question and Answer James Case	
1:45 - 1:50	5 Min Transition	5 Min Transition	5 Min Transition	
1:50 - 2:20	Fertility Transitions: Results of a Global Psuedo-Experiment Max Kummerow	The part played by coal in the transition to industrial capitalism? Kent Klitgaard	GDP, Energy and Debt Paul Luke	
2:20 - 2:30	Question and Answer Max Kummerow	Question and Answer Kent Klitgaard	Question and Answer Paul Luke	
2:30 - 2:35	5 Min Transition	5 Min Transition	5 Min Transition	
2:35 - 3:05	To Be Sustainable, Green Energy Must Generate Adequate Taxable Revenue Gail Tverberg	Is the Great Deceleration inevitable? John W. Day	A Study of Equilibrium in a Nano-Economy Garvin Boyle	
3:05 - 3:15	Question and Answer Gail Tverberg	Question and Answer John W. Day	Question and Answer Garvin Boyle	
3:15 - 3:20	5 Min Transition	5 Min Transition	5 Min Transition	
3:20 - 3:50	An energy analysis of New Zealand's Net Zero 2050 transition Solis Norton	Enhancing the evaluation of Energy Investments by supplementing traditional discounted cash flow with Energy Return on Investment Analysis Charles Hall	Computer models to synthesize and communicate complex information for management and political decisions Charles Hall	
	Question and Answer Solis Norton	Question and Answer Charles Hall	Question and Answer Charles Hall	
4:00 - 5:00pm	**Facilitated Group Discussion**	**Facilitated Group Discussion**	**Facilitated Group Discussion**	