



## International Society for BioPhysical Economics (ISBPE)

### BioPhysical Economics Meeting 2016 : Preliminary Program (version 3.0)

Session	Session Title		Convener/Author
<b>1</b>	<b>Paper #</b>	<b>Social Energetics: Connecting Natural and Social Sciences</b>	<b>Robert Ayers</b>
	1.1	2 The unity of science and economics: A new foundation of economic theory	Jing Chen
	1.2	E007 Bio-econo-physics: Synthesis of Natural and Social Sciences?	Juergen Mimkes
	1.3	E015 Biophysical and social determinants of economic stagnation and degrowth	Kent Klitgaard, Charles A.S. Hall, M. Muin Uddin, Michael
	1.4	1 Social Energetics: A Unifying Paradigm?	Ram Poudel and Jon McGowan
<b>2</b>	<b>Paper #</b>	<b>Energy Return on Investment (EROI)</b>	<b>Serge Galam</b>
	2.1	8 Using EROI for a limits analysis of variable renewable energy (VRE) and storage	Graham Palmer
	2.3	20 Energy Return on Investment (EROI) of Canadian oil sands extraction, a comparison with other energy sources	Ke Wang, Harrie Vredenburg and Lianyong Feng
	2.4	32 Energy return on energy invested (EROEI) empirical model of an organic energy source	Matthew Deason, John Schramski and Krista Jacobsen
<b>3</b>	<b>Paper #</b>	<b>Energy and Economics: Is there symbiosis ?</b>	<b>John Schramski</b>
	3.1	E005 Complexity: The Connection between Fossil Fuel EROI, Human Energy Efficiency and Economic Growth	Gail Tverberg
	3.2	22 Application of Systems Science Principles to Economics	George Mobus
	3.3	25 Global Inequality in Energy Consumption from 1980 to 2010	Victor Yakovenko
<b>4</b>	<b>Paper #</b>	<b>Entropy, Information and Economics</b>	<b>Juergen Mimkes</b>
	4.1	E016 Private information, market efficiency and the formation of bubbles: An information theory perspective	Serge Galam
	4.2	29 Economics, Thermodynamics and Entropy – parallels, differences and relationships	John Bryant
	4.3	3 An Entropy Theory of Mind	Jing Chen
<b>5</b>	<b>Paper #</b>	<b>Integrating BPE and Policy</b>	<b>Gail Tverberg</b>
	5.1	E012 Is Context and Complexity a Bridge Too Far? Metaphors for Infusing Multidisciplinary Science into Policy	Timothy Wojan
	5.2	E011 Extremism in a Resource Constrained World: How policy is being impacted by complexity	Jessica Lambert and Charles A. S. Hall
	5.3	35 The Energy Pillars Diagram: an effective communication tool for biophysical economics	John Day, Christopher D'Elia, Adrian Wiegman and Jeff R
	5.4	E014 Bringing Biophysical Economics to the policy arena: opportunities and challenges	François-Xavier Chevallerau



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Session	Session Title		Convener/Author
<b>6</b>	<b>Paper #</b>	<b>Macro-Perspectives : Biophysical Economics</b>	<b>Charles Hall</b>
	6.1	E009 The universe as a heat engine doing work to create natural wealth	Robert AYRES
	6.2	E010 Lotka's Jabberwock: On the 'Bio' of BioPhysical Economics"?	Libb Thims
	6.3	31 Economics, Thermodynamics and Entropy – the impact of resources and	John Bryant
	6.4	5 Post-normal speculation in macro design of a wealth-based economy: R	Don Chisholm
<b>7</b>	<b>Paper #</b>	<b>ASPO: Assessment of Peak Oil</b>	<b>Jan Muller</b>
	7.1	E018 BioPhysical Economics: A Continuation of ASPO	Jan Muller
	7.1	7 Study on the relationship between the peak demand of fossil fuels and	Jingxuan Feng, Lianyong Feng and Jianliang Wang
	7.2	36 Long term forecasts for oil prices: a review of oil supply and energy mar	Adrian Wiegman and John Day
<b>8</b>	<b>Paper #</b>	<b>Money, Capital and Energy Resources</b>	<b>Jing Chen</b>
	8.1	15 Integrated Circular Economy Evaluation Method of Chinese Refinery Ent	Kangyin Dong, Renjin Sun and Hui Li
	8.3	E017 Trump phenomena : A Sociophysics View	Serge Galam
	8.4	23 Symbiotic Development & Co-Dependency of the Financial and Energy S	Roger Boyd
	8.5	E014 Energetics foundation of Statistical Economics	Ram Poudel
<b>9</b>	<b>Paper #</b>	<b>BPE and Developing Nations</b>	<b>Adrian Wiegman</b>
	9.1	21 Food Security: The Human Food System and the Laws of Thermodynam	John Schramski, Garrett Steck and James Brown
	9.2	33 Policy implication of air pollution in Kathmandu valley: valuing hea	Naveen Adhikari
	9.3	34 Challenges and Opportunities in Applying the Bio-Physical Economic Mo	Maria Aileen Leah G. Guzman and Jude Anthony N. Estiv
<b>10</b>	<b>Paper #</b>	<b>Modelling Sustainability and Implementation</b>	<b>Ke Wang</b>
	10.1	12 How to Calculate Sustainability (progress report)	Jack Alpert
	10.2	17 Modeling Inter-Generational Sustainability	Garvin Boyle
	10.3	9 Unwinding the Human Predicament	Jack Alpert
	10.4	19 The Economic Implications of Maximum Power in a Sustainable Society	Garvin Boyle



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Session		Session Title	Convener/Author
<b>11</b>	<b>Paper #</b>	<b>Wealth Dynamics: Statistical/Mathematical Economics</b>	<b>Michael Carbajales-Dale</b>
	11.1 28	Why Wealth Concentrates	Bruce Boghosian
	11.2 E008	Statistical Economics: Probability distributions of money, income, and e	Victor Yakovenko
	11.3 16	Dynamic regulation of human-activity through socio/biophysical econor	Don Chisholm
	11.4 40	Mathematics and logic of Net Energy Assessments	Carey King
<b>12</b>	<b>Paper #</b>	<b>BioPhysical Resource Analysis and Modeling</b>	<b>Lianyong Feng</b>
	12.1 40	Resource Depletion and Sustainability in Industrialized Economies	Becky Haney, John Sherwood, Michael Carbajales-Dale, I
	12.2 E013	Human and nature dynamics (HANDY): Modeling inequality and use of r	Safa Motesharrei, Jorge Rivas, and Eugenia Kalnay
	12.3 S001	Bulk goods as an imperfect abstraction of the physical world	Eric Kemp-Benedict
	12.4 39	Lifecycle assessment and net energy analysis: birds of a feather or unea	Michael Carbajales-Dale

Updated: 6/11/2016

## BPE 2016 Schedule: Session Time Table

Date→	26-Jun	27-Jun	28-Jun	29-Jun
Time↓	Sunday	Monday	Tuesday	Wednesday
8:45				
9:00		Welcome and Opening Remarks	6: BPE Macroperspectives	11: Wealth Dynamics: Statistical/Mathematical Economics
9:15				
9:30				
9:45				
10:00				
10:15				
10:30				
10:45				
11:00		1: Social Energetics	7: ASPO	12: Resource Analysis and Modelling
11:15				
11:30				
11:45				
12:00		Boulding Award		Closing Plenary Panel
12:15				
12:30				
12:45				
13:00			Adjournment	
13:15				
13:30				
13:45				
14:00	Registration Opens	2: EROI	8: Money Capital and Energy Resource	
14:15	DC Area Field Trips	3: Energy & Economics		
14:30				
14:45				
15:00		4: Entropy, Information & Economics	9: BPE and Developing Nations	10: Modelling Sustainability
15:15				
15:30				
15:45				
16:00				
16:15				
16:30				
16:45				
17:00				
17:15	Network/Meeting		ISBPE Member Meeting	
17:30				
18:30	Opening Reception	5: Integrating BPE and Policy		
20:00			ISEE Awards Banquette	

Legend: Color code	
	Joint Session BPE and EE
	Overlap with EE Plenary
	Lunch
	Coffee Break

Session #	Full Session Name
1	Social Energetics: Connecting Natural and Social Sciences
2	Energy Return on Investment (EROI)
3	Energy and Economics: Is there symbiosis?
4	Entropy, Information and Economics
5	Integrating BPE and Policy
6	Macro-Perspectives : Biophysical Economics
7	ASPO: Assessment of Peak Oil
8	Money, Capital and Energy Resources
9	BPE and Developing Nations
10	Modelling Sustainability and Implementation
11	Wealth Dynamics: Statistical/Mathematical Economics
12	BPE Resource Analysis and Modelling