



30<sup>th</sup> Annual International Conference of the  
**CONFERENCE SCHEDULE**  
 JULY 22<sup>nd</sup>, 23<sup>rd</sup>, and 24<sup>th</sup>, 2020

All listed times are Eastern Daylight Time  
 (Toronto, Canada)

**Society for Chaos Theory in Psychology and Life Sciences**

**WEDNESDAY, JULY 22<sup>nd</sup>, 2020**  
 (8:30 AM – 5:00 PM)  
**Nonlinear Multi-Method Workshop!**  
 Online

**THURSDAY, JULY 23<sup>rd</sup>, 2020**

7:30-8:00	<i>Zoom Setup and Log in</i>	
	<b>Log in to Session A (Chair: Rosser; Moderator: Kiefer)</b>	
8:00-8:30	<b>8:00 AM: Welcome, Introduction, and Instructions</b>	
8:30-10:00	<b>Session A (Chair: Ware; Moderator: Kiefer)</b>	<b>Session B (Chair: Rosser; Moderator: Rosser)</b>
	<i>Time, cognition, and gravitation</i>	<i>Epistemology and scale</i>
8:30-9:00	Michael Susko, Mindspring.com “Ten pulses of evolution & the logarithmic nature of evolutionary time”	Bob Hodge, University of Western Sydney, Australia “Some implications of Anderson’s ontological hierarchy: the case of semiotics”
9:00-9:30	Martin D. Pham, Hospital for Sick Children, Toronto, Canada “Towards nonlinear dynamical neural models of linguistic indicators in cognitive impairment with implications for Evental psychiatry”	Harold Hastings, Bard College at Simon’s Rock, Massachusetts, USA “Empirical scaling and dynamics regimes for GDP: challenges and opportunities”
9:30-10:00	Ken Ware, QLD, Australia “Gravities 100% reliable vertical constraint”	J. Barkley Rosser, Jr., James Madison University, Virginia, USA “Complexity and knowledge”
10:00-10:30	<i>Break’ technical troubleshooting</i>	
	<b>Log on to Session A (Chair: Rosser; Moderator: Kiefer)</b>	
10:30-12:00	<b>Plenary Session Simon A. Levin, Princeton University, New Jersey, USA, “Collective motion, collective decision-making, and collective action”</b>	
12:00-12:30	<i>Break</i>	

<b>THURSDAY , JULY 23<sup>rd</sup> , 2020 (continued)</b>		
12:30-2:00	<b>Session A (Chair: Bao; Moderator: Kiefer)</b>	<b>Session B (Chair: Rosser; Moderator: Guastello)</b>
	<b>Symposium: Memory</b>	<b>Virtual Poster session</b>
12:30-2:00	<b>Symposium</b> Najia Bao, Columbia University, New York, USA “How to lower the threshold of STEM long-term memory”	Sungchoon (Aviva) Sinclair, University of Utah “A common pattern across different disciplines in theoretical physics, chemistry, biology, and plastic art: Using an archetype of universal non-verbal plastic patterns by Kang Woo-Hang from a qualitative perspective”
		Aleksander Jakimowicz, INEPAN, Poland “Hyperchaos in financial markets”
		Vivian Rambihar, University of Toronto, Canada “Chaos Complexity Covid-19: 30 years teaching health professionals chaos and complexity”
		Chad Danyluck, University of Colorado-Boulder, USA “Physiological synchrony during a pre-practice routine is associated with poor performance in a team of male volleyball athletes”
2:00-2:30	<b>Break</b>	
2:30-4:00	<b>Session A (Chair: Guastello; Moderator: Kiefer)</b>	<b>Session B (Chair: Koopmans; Moderator: Schuldberg)</b>
	<b>Human systems</b>	<b>Fractals</b>
2:30-3:00	Mark Shelhamer, Johns Hopkins University, Maryland, USA “A complex systems approach to human and mission resilience for a mission to Mars”	David Pincus, Chapman University, California USA “Romantic resilience: Fractal conflict dynamics, network flexibility, and relationship satisfaction”
3:00-3:30	Kevin Dooley, Arizona State University, USA “A CAS model of systemic corruption”	Matthijs Koopmans, Mercy College, New York, USA “The distinction between seasonal and fractal patterns in long-range time series: I. Concepts of fractal estimation”
3:30-4:00	Stephen Guastello, Marquette University, Wisconsin, USA “Autonomic synchronization, leadership emergence, drivers and empaths”	Matthijs Koopmans, Mercy College, New York, USA “The distinction between seasonal and fractal patterns in long-range time series: II. Modeling responses to seasonal and fractal estimation”
4:30-6:00	<b>Session A: (Chair: Magnes; Moderator: Kiefer)</b>	<b>Session B (Chair: Kreindler; Moderator: Rosser)</b>
	<b>Symposium: C. Elegans</b>	<b>Chaos, stochasticity, and psychopathology</b>
4:30-5:00	Jenny Magnes, Vassar College, New York, USA “Dynamics markers of C. elegans motion in three dimensions”  Other participants: Harold Hastings, Bard College of Simon’s Rock, Massachusetts, USA; Susannah Zhang, Vassar College, New York, USA	Allan Combs, IISC, California, USA “Tottering on the edge of chaos”
5:00-5:30		David Pincus, Chapman University, California, USA “Fat tails, burstiness, and stochasticity in the malleability of physical activity”
5:30-6:00		David Kreindler, University of Toronto, Canada “Dynamic time warping to analyze the similarity of mood symptom time series data”
	<b>Log in to Session A (Moderator: Kiefer)</b>	
6:00-8:00	<b>Social Gathering</b>	

**FRIDAY, JULY 24<sup>th</sup>, 2020**

7:30-8:00	<i>Log in</i>	
8:00-9:30	<b>Session A (Chair: Rosser; Moderator: Kiefer)</b>	<b>Session B (Chair: Sulis; Moderator: Guastello)</b>
	<i>Economics</i>	<i>Industrial/Organizational &amp; Clinical</i>
8:00-8:30	Orlando Gomes, ISCAL, Portugal “Behavioral saving”	Jose Navarro, University of Barcelona, Spain “The rough journey to success: Examining the nonlinear dynamics of processes and performance in teams”
8:30-9:00	Yuji Aruka, Chuo University, Japan “The evolution of exchange processes”	Teresa Rebelo, University of Coimbra, Portugal “Does virtuality influence team learning? An analysis with cusp models”
9:00-9:30	Akio Matsumoto, Chuo University, Japan “Stability switching in Cournot duopoly games with three delays”	William Sulis, McMaster University, Canada “The continuum from temperament to mental illness: Clinical and dynamical perspectives”
9:30-10:00	<i>Break</i>	
10:00-11:30	<b>Session A (Chair: Chiovaro; Moderator: Kiefer)</b>	<b>Session B (Chair: Chan; Moderator: Kreindler)</b>
	<i>Political processes and social justice</i>	<i>Social influences and health</i>
10:00-10:30	Janice Ryan, Attunement Solutions, Tennessee, USA “Applications of prisoner’s dilemma modeling in search of a more socially just dominant strategy: Overcoming anxiety associated with group oppression: Lessons from a single case study”	Bernard Ricca, St. John Fisher’s College, New York, USA “On the meaning of ‘phase’ in collaborative research”
10:30-11:00	Megan Chiovaro, University of Connecticut, USA “Recurrent quantification analysis of real-time and online social cohesion during the Arab Spring”	Dimitrios Stamovlasis, Aristotle University of Thessaloniki, Greece “Achievement goal orientation and classroom goal structures: Dynamic interaction effects on students’ academic behavior”
11:00-11:30		David Chan, Virginia Commonwealth University, USA “The protective effect of having a prime supporter within a social network of college students on mental health and education”
11:30-12:00	<i>Break</i>	

<b>FRIDAY, JULY 24<sup>th</sup>, 2020 (continued)</b>		
	<b>Log on to Session A (Moderator: Kiefer)</b>	
12:00-1:00	<b>Annual Business Meeting (Chair: Schuldberg)</b>	
1:00-1:30	<b>Break</b>	
	<b>Session A (Moderator: Kiefer; Chair: Rosser)</b>	
1:30-3:00	<b>Presidential Address: David Schuldberg, University of Montana, USA "Covid-19 and the nonlinear dynamics of everyday life"</b>	
3:30-5:00	<b>Session A (Chair: Guastello; Moderator: Kiefer)</b>	<b>Session B (Chair: Rambihar; Moderator: Armitano-Lago)</b>
	<b>Patterning</b>	<b>Physiology and health</b>
3:30-4:00	Allan Combs, IISC, California, USA "Fractals all the way down"	Cortney Armitano-Lago, University of North Carolina-Chapel Hill, USA "Feedback cueing changes in lower limb loading during gait alters underlying stride interval dynamics and intralimb coordination dynamics in individuals following anterior cruciate ligament reconstruction"
4:00-4:30	L Bernard Ricca, St. John Fisher's College, New York, USA "An introduction to topological data analysis"	Tai Young-Taft, Bard College of Simon's Rock, Massachusetts, USA "The coronavirus pandemic and the multi-network city"
4:30-5:00	Stephen Guastello, Marquette University, Wisconsin, USA "A comparison of four dyadic synchronization models"	Vivian Rambihar, University of Toronto, Canada "Chaos Complexity and complex systems: To prevent, contain and manage Covid-19"
	<b>Log on to Session A (Chair: Rosser; Moderator: Kiefer)</b>	
5:00-5:30	<b>Concluding Session</b>	

**Thank you for contributing your knowledge and your presence to our 30<sup>th</sup> Annual Conference of the Society for Chaos Theory in Psychology & Life Sciences!**

**Best wishes for safe journeys back to the kitchen for all!**

**Stay safe.**