

CONFERENCE SCHEDULE

July 30-31, 2016

26th Annual Conference of the Society for Chaos Theory in Psychology and Life Sciences

In the University of Utah's Beautiful Officers' Club



| SATURDAY, JULY 30, 2016 | | | |
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| 8:30-8:45 | Refreshment and gathering | | |
| 8:45-9:00 | Conference Opening Plenary | | |
| | West Room | East Room | South Room |
| | Theory & Dynamics of Creativity | Health Applications of Nonlinear Methods | Education Application of Nonlinear Analysis |
| 9:00-9:30 | The Onflow of the Mind as an Autocatalytic Process Leslie Allan Combs, Zachary Stein | The Antifragile Athlete: A Preliminary Analysis of the Association between Neuromotor Dynamics and G-Force Impacts Sustained during Sport Adam Kiefer, Christopher DiCesare, Kim Barber Foss, Patrick Nalepka, Michael Riley, Ken Ware, Paula Silva, Gregory Myer | Complexity in Applied Educational Research: Conceptual and Methodological Issues Matthijs Koopmans |
| 9:30-10:00 | Symposium: Dynamic Issues in Children's Play Doris Fromberg, Doris Bergen | Quantifying Stress Using mDFA: An Empirical Study for a Practical Method of Heartbeat Analysis Toru Yazawa | Preliminary Results of an Explanatory Sequential Mixed Methods Study of the School Leaders Role in Students Mathematics Achievement through the Lens of Chaos and Complexity Theory Emma Bullock |
| 10:00-10:30 | | A Patient-specific Model for Hyperthyroidism Treatment in Graves' Disease Balamurugan Pandiyan | "Being in Uncertainties:" A Perspective on Teaching and Chaos Diane Rosen |
| | | | Meta Perspectives |
| 10:30-11:00 | Honing Theory: Rationale and Evidence for a Complex Systems Framework for Creativity Liane Gabora | NeuroPhysics Therapy as a Potential Approach for Prevention of Epileptic Seizure: A Preliminary Analysis Tom Ware, Adam Kiefer, Ken Ware | Giving Top-Down Thinking Its Due Paula Derry |
| | Poster Session: Micro Dynamics | Empirical, Methodology | |
| 11:00-11:30 | Dynamics of Embodied Bistable Perception of the Necker Cube Thomas Brooks | Using Chua's Circuit to Test Novel Nonlinear Analysis Methodologies Gregory Derry | The Nonlinear Revolution in Behavior Sciences: What Happens to a Paradigm Shift Deferred? |

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| | <p>Dynamic EEG Desynchronization in Response To Vicarious Pain Justin Durham, Chanda Rooney, Mickie Vanhoy, Robert Mather</p> <p>ERP Analysis: Using a Third Order Coupled Oscillator Model A. K. Munion, Jon Butner, Matt Euler, Tyler McKinne</p> | | William McCown, Linda Chamberlain |
| | Interpersonal Dynamics | Applications | |
| 11:30-12:00 | <p>Cortisol Synchronization in the Intentional Interpersonal Relationship Janice Ryan</p> | <p>An Exploration of Complexity Theory in Managing Difficult Projects Ganapathy Lakshmikanthan, Ashok K. Pundir</p> | <p>Visions of Stability and Change in Physiological and Social Systems David Schuldberg</p> |
| 12:00-1:30 | Lunch (on our own) | | |
| 1:30-2:00 | <p>Short Workshop: Experiential Balancing Therapy (EBT): An Integrative Theory and Approach Grounded in Nonlinear Dynamical Systems Science David Pincus</p> | <p>Examining a Cusp Catastrophe Model for Public Health Planning and Management Barbara Bruhns Frey</p> | |
| 2:00-2:30 | | <p>Using Eoyang's Container-Difference-Exchange Model to Explain Complex Change: The Case of The Sustainability Consortium Kevin Dooley</p> | |
| | | Empirical, Methodology | |
| 2:30-3:00 | <p>Love Affair Dynamics with One Delay in Losing Memory or Gaining Affection Akio Matsumoto, Ferenc Szidarovszky</p> | <p>Symposium: Innovative Nonlinear Analysis Methods for Uncovering Informative Physiological Transitions during Neurophysics Therapy: An Empirical Journey from Datapalooza to SCTPLS 2016 Adam Kiefer Ken Ware</p> | |
| 3:00-3:30 | <p>Fractal Conflict Dynamics in Dating Relationships David Pincus</p> | | |
| | | Applied Philosophical | |
| 3:30-4:00 | <p>Symposium: Co-Regulation Processes between Nonlinear Dynamical Systems: A Computational Approach to Study Dyadic Interactions Peter Hilpert, Brian Baucom, Craig Bryan, Zac Imel, Christina Soma, Jasara Hogan, Jonathan Butner</p> | <p>Complexity at the Root of Psychoanalysis: A Freudian Leap Revealed by Overdetermination Jesus Mario Serna</p> | |
| 4:00-4:30 | | | |
| 4:30 to 5:30 is free time before evening festivities and keynote | | | |

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| 5:30-6:30 | In the building's large center gathering space Reception, with beverages and hors d'oeuvres provided | | |
| 6:30 | Buffet opens for our annual Banquet Banquet Keynote Speaker: <i>Gus Koehler</i> - The Temporal-Space Mysteries of a Complex System: Performance of an Instant in Time | | |
| SUNDAY, JULY 31, 2016 | | | |
| 8:30-9:15 | Refreshments with Members' Annual Business Meeting | | |
| 9:15-10:15 | In the South Room: Keynote Speaker: <i>Glenda H. Eoyang</i> - There Be Dragons: The Future of Uncertainty | | |
| | West Room | East Room | South Room |
| | Applications on the Move | Empirical & Theoretical | |
| 10:15-10:45 | Synchronizing Family Science with Edward Lorenz to Build a More Culture-Friendly Household Chaos Theory Corey Whitesell | Self-organization in the Dreaming Brain Stanley Krippner, Leslie Allan Combs, | |
| 10:45-11:15 | Performance and Participation Dynamics in Stag Hunt Games Stephen J. Guastello, David E. Marra, Julian Castro, Maribeth Gomez, Claire Perna | Changes in Dimensionality and Fractal Scaling as Evidence for Softly-Assembled Dynamics in Human EEG Travis J. Wiltshire, Matthew J. Euler, Jonathan E. Butner, Ty L. McKinney, A. K. Munion | |
| 11:15-11:45 | Centering on Topology: Using Centering in the Dynamic Decomposition of GPS Tracks A. K. Munion, Jon Butner, Travis Wiltshire, Jeanine Stefanucci, Ericka Rovira, Michael Hendricks | The Measure of Fractal Action Complexity as a Cross-cutting Unit of Analysis for Fractal Physiological, Psychological, and Social Dynamics Sara Nora Ross | |
| 11:45-1:00 | Lunch (on our own) | | |
| 1:00-2:00 | Symposium: What Difference Does It Make: Applications and Implications of Complexity for Practice Glenda H. Eoyang, Kevin Dooley, Janice Ryan | | |
| | Team and Group Dynamics | Experiential Complexity | Empirical: Health |
| 2:00-2:30 | From Nothing to Something: The Nonlinear Dynamics of How Basketball Spread Across the Globe Derek Paar, Dennis Gildea | Short Workshop: Hands-on Modelling of Perceptual Switching in Coupled Rotations of Four Ordered Oppositional Pairs: Chiral Quaternions Martin Hay (Presenter), Terry Marks-Tarlow, Herb Klitzner | Nonlinear Analysis of Heart-Rate Variability in U.S. Military Service Members with Post-Concussive Syndrome after Mild Traumatic Brain Injury Susan Mirow, Steffanie Wilson, Lindell Weaver, Susan Churchill, Kayla Deru, Anne Lindblad |

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| 2:30-3:00 | Development and Validation of a Synchronization Coefficient for Biosocial Interactions in Groups and Teams Stephen J. Guastello, Anthony F. Peressini, David E. Marra, Julian Castro, Maribeth Gomez | Workshop, continued. | HRV Quantifies a Normal Corridor for Entropy Useful for Clinical Conditions Susan Mirow, Olinto Linares |
| 3:00-3:30 | Integrative Closing Plenary Session | | |
| <i>Thank you for contributing your knowledge and your presence to our 26th Annual Conference of the Society for Chaos Theory in Psychology & Life Sciences!</i> | | | |
| <i>Best wishes for safe journeys home for all!</i> | | | |