

# Tentative Schedule

The 2021 System Dynamics Conference - Virtually Chicago

All times are shown are for Chicago (Central Daylight Time: UTC-5)

**Monday July 26**

**07:00 Mon Other:** Mindfulness Meditation, chaired by Linda Hirsch

**08:00 Mon Other:** Opening Ceremony A

**08:30 Mon Plenary:** COVID-19 Pandemic

*Behavioral dynamics of COVID-19: estimating under-reporting, multiple waves, and adherence fatigue across 92 nations*, by Hazhir Rahmandad, Tse Yang Lim, John Sterman [Abstract](#)

*Responding to the COVID-19 Pandemic: Epidemiological Modeling on Speed Dial*, by Charles Macal [Abstract](#)

*Global Realignment in Financial Market Dynamics: Evidence from ETF Networks*, by Mila Getmansky Sherman [Abstract](#)

**10:00 Mon Other:** Exhibitor Pecha Kucha

**10:30 Mon**

**WIP:** Business and Economics WIP

*Building Bridges between Science and Practitioners in SHRM: a System Dynamic approach*, by Ane Sanchez [Abstract](#)

*Applying System Dynamics To Ascertain Sustainability of Italian Football*, by Erda Gercek [Abstract](#)

*What Constrains 'Identity-Preserved' Product Growth? An Exploration of High-Oleic Soybean Oil with Group Model Building*, by Keenan McRoberts, Besir Suleyman Oz, Birgit Kopainsky [Abstract](#)

*Effectiveness of Interest rate policy in Stimulating Household Consumption*, by Vytenis Šimkus, David Wheat [Abstract](#)

*Dynamic model of the interest rate cap in Peru*, by Elizabeth Lope, Dennis Miranda, Walter Aliaga [Abstract](#)

*A Dynamic Model of the Distributional Consequences of International Trade Exposure*, by Sara Metcalf, Qiuyi Zhang, Harvey Palmer [Abstract](#)

**Parallel:** COVID-19: Policy Design Across the World

*Against the full lockdown: The COVID-19 flow in Sweden*, by Muhamad Khairulbahri [Abstract](#)

*Modeling The Dynamics of Covid-19 And Alternative Policies in Turkey*, by Ekin Karamalak, Elif Bayazit [Abstract](#)

*Investigating the effectiveness of reopening policies before vaccination during a pandemic*, by Ying Qian [Abstract](#)

**Parallel:** Microeconomics, chaired by Oleg Pavlov

*Modelling the Dynamic of Consumer Lending System in the Banking Sector*, by Andrii Kaminskyi, Natalia Versal, Oleksii Petrovskyi [Abstract](#)

*The effects of feedback and delay on punishment and cooperation in public good experiments*, by Ali Akhavan, Paulo Goncalves [Abstract](#)

*A business transition model for sustainability-oriented industrial innovation and feedback on employment, inequality, and infla*, by Roberto Pasqualino, Melissa Demartini [Abstract](#)

**Parallel:** Agriculture, Land Use, and The Tragedy of the Commons

*Explaining the complex drivers of land abandonment of horticultural family farms in Senegal*, by Sandra Volken [Abstract](#)

*Dynamics of Crop Yield in the Blue and White Nile Basins*, by James Enos, Bruce Keith [Abstract](#)

*Modeling the Tragedy of the Commons: Review of System Dynamics Models*, by Mehdi Moghadam Manesh, Saeed Langarudi, Birgit Kopainsky [Abstract](#)

**Parallel:** Water Resource Management

*On the combined effects of socio-hydrology and climate change on water resources management – a case study*, by Andreas Nicolaidis Lindqvist [Abstract](#)

*The many faces of water management: The case of Mexico City Valley*, by Roberto Villasenor [Abstract](#)

*Modeling as a Tool to Improve the Impact of Water Science Research*, by Ashley Atkins, Saeed Langarudi, Alexander Fernald [Abstract](#)

**Parallel:** Clinical Care Improvement

*What is the Stakeholder Effect on Clinical Guideline Formation Process: An Experimental Study*, by Özge Karanfil, Şanser Güz, Orkun Irsoy, MohammadMahdi Hashemian [Abstract](#)

*Health-Related Quality of Life in Cancer Immunotherapy: Construction of Causal Loop Diagram*, by Elizabeth Beaulieu, Mohammad Jalali [Abstract](#)

*A Model of Cardiovascular Disease Disparities with Illustrative Policy Analysis*, by Jack Homer, Kamal Henderson, Meredith Fort [Abstract](#)

**WIP:** Methods WIP

*DISCOVER: A systems-based approach for co-creation (work in progress)*, by Niamh Smith [Abstract](#)

*Proposal of a Method to Verify a Stock Flow Diagram Using Stakeholder Value Network*, by Kensuke Uno, Yoshiaki Oida, Isaac Okada, Yutaka Takahashi, Kazuo Hiekata [Abstract](#)

*Simulations based on the Rasch model – a rigorous approach to modeling behavior*, by Andreas Nicolaïdis Lindqvist [Abstract](#)

*On Reference Modes: Lessons from Quantifying Intangibles from Survey Data*, by Christine Tang, Saeed Langarudi, Raafat Zaini [Abstract](#)

*Standardizing Data for Evidence-Based Food Systems*, by Abigail Roche, Peter Hovmand, David Lounsbury, Paola Saroufim, Timothy Ciesielski, Owusua Yamoah, William Bush, Darcy Freedman [Abstract](#)

*A Two-Stage Hybrid Simulation Method to Model Disease Transmission through Calculating a Contacts Matrix: The Case of an ICU*, by Mahdi M. Najafabadi, Ali Asgary, Mohammadali Tofighi, Mohammad Shafiee, Philip Ma [Abstract](#)

**Parallel:** Public Sector Policies

*Systems Thinking for Public Policy: A Case Study in Brazil*, by Karim Chichakly [Abstract](#)

*Application of System Dynamics to Map Causal Mechanisms of Drinking and Driving Behaviors Among Teens and Young Adults*, by Niyousha Hosseinichieme [Abstract](#)

*Mapping Interactions Between Food Security and Poverty*, by Raquel Froese Buzogany, Birgit Kopainsky, Paulo Goncalves [Abstract](#)

**12:00 Mon Plenary:** From Insights to Action (**Chicago (Plenary)**)

*National Virtual Biotechnology Laboratory (NVBL)*, by Ignacio Martinez-Moyano [Abstract](#)

*Modeling for Real-World Decision Support, a History and Retrospective*, by Andjelka Kelic [Abstract](#)

*Sociocultural/Geopolitical Modeling & Assessment: Current Work and Research Frontiers*, by Michael Bernard [Abstract](#)

**13:30 Mon Other:** Laughter Yoga (15 minutes)

**14:00 Mon**

**Parallel:** COVID-19: Social Impacts

*Parametrized SEIR model for performance-based decision support: A case study of COVID-19 epidemic in the state of Georgia (USA)*, by Nafe Moradkhani, Frederick Benaben, Benoit Montreuil, Dima Nazzal, Matthieu Lauras, Julien Jeany, Louis Faugere [Abstract](#)

*Housing and public health responses to COVID-19: Modeling efficient national housing assistance to flatten the eviction curve*, by Patrick Fowler, Katherine Marcal [Abstract](#)

*The Effect of COVID-19 to Credit Risk and Bankruptcy Risk of State-Owned Bank in Indonesia: A System Dynamics Model*, by Taufiq Hidayat, Fauzan Ahmad [Abstract](#)

**Parallel:** Analyzing the Transition to a Sustainable World

*Investigating Circular Economy transitions through a System Dynamics-based framework*, by Daniel Guzzo, Daniela Pigosso, Nuno Videira, Janaina Costa [Abstract](#)

*Causal Loop Diagrams for Facilitating Transdisciplinary Research in social-ecological systems*, by Shuchi Vora, Om Damani, Sushmita Mandal [Abstract](#)

*Modeling household level food security with system dynamics: from crop decisions to food availability*, by Fernando Redivo [Abstract](#)

**Parallel:** Natural Resources, Electricity, and Sustainability

*Modelling the Growth of Solar Electricity Capacity in Singapore – A System Dynamics Approach*, by Wei Kit Khoong [Abstract](#)

*Can Germany Move Towards 100% Renewable Electricity Without Major Problems?*, by Zahraalsadat Mashhadi [Abstract](#)

*Combining Foresight and Systems Dynamics in the project - Scenarios for a Sustainable Europe 2050*, by Hördur Haraldsson, Daniel Bonin [Abstract](#)

**Parallel:** Stakeholder Engaged Health Care Improvement

*Mapping the Dynamic Complexity of Social Isolation among Older Adults in Singapore*, by Emma Min Shuen Toh, Wei-Yan Aloysius Chia, John Ansah [Abstract](#)

*What causes disagreement among physicians? Dynamics of customers' perception and physicians' experiential learning*, by Hesam Mahmoudi, Navid Ghaffarzadegan [Abstract](#)

*Leveraging SD to study and strengthen acute crisis mental health service systems as systems*, by Raymond Smith, Kristen Hassmiller Lich, Elizabeth La [Abstract](#)

**WIP:** Methods for Developing Resources for Applying Systems Thinking

*Effectiveness of SD/ILE (System Dynamics base Interactive Learning Environment) as an interdisciplinary educational tool*, by Mahla Rashidian, William Schoenberg [Abstract](#)

*Online Approaches for Community Based Modeling: Adapting to COVID Operations and Innovating for Future Practice*, by Lucy Chin, Min Hu, Ellis Ballard [Abstract](#)

*An approach towards supporting the structuration of complex problems in System Dynamics through a web application*, by German-Lenin Dugarte-Pena, Raúl Ortiz Mazarro, María-Isabel Sanchez-Segura, Antonio de Amescua Seco, Fuensanta Medina-Domänguez [Abstract](#)

*A Dynamic Simulator of Disorders of the Body Water Homeostasis for Medical Education*, by Özge Karanfil, Sema Çömez, MohammadMahdi Hashemian [Abstract](#)

*A System Thinking Assessment Scale for Storybooks (STASS)*, by Nilay Yilmaz, Ulkem Yararbas, Hasret Nuhoglu, Emre Goktepe [Abstract](#)

*Organizational Learning from Production Control Data: unravelling tacit knowledge*, by Raquel Reck [Abstract](#)

**WIP:** Circular economy

*Evaluating the economics and carbon footprint of recycling flexible plastic packaging*, by Mike Severson [Abstract](#)

*Could System Dynamics be a solution for analysing rebound effects of Circular Economy initiatives?*, by Julija Metic [Abstract](#)

*Scenarios of bio-based plastics growth and impact*, by Henri Wiman [Abstract](#)

*Multi-solving Waste Reduction and Food Production Model Feeding Styrofoam to Consumable Mealworms*, by Brenden Campbell, Allyson Beall King [Abstract](#)

**WIP:** Insights from, and about, Participative Modelling

*Communication dynamics in an online group model building workshop*, by Nici Zimmermann, Irene Pluchinotta, Giuseppe Salvia [Abstract](#)

*Building peer support and practice insights in community-based modeling practice*, by Ellis Ballard, Kelsey Werner, Birgit Kopainsky [Abstract](#)

*Impact of Racial Discrimination Across the Lifespan*, by Peter Hovmand, Jean-Francois Trani, Ganesh Babulal, Nicholas Miller, Mary Kate Cartmill, Nicandro Mandujano Acevedo, Sandra Lee, William Liem, Braveheart Gillani [Abstract](#)

*Exploring the Application of Community Based System Dynamics to Structural Racism in Universities*, by Laura Cowie-Haskell, Kelsey Werner, Elizabeth McColloch [Abstract](#)

*Taking a step back: A Systemic look at bias in machine learning*, by Shavindrie Cooray [Abstract](#)

*Developing reporting guidelines for community engagement in system dynamics projects on equity issues.*, by Braveheart Gillani, Andrew Brown, Sarah Pritchard [Abstract](#)

**WIP:** Dynamic and Sustainable Strategy in Public or Private Organizations

*Does your strategy withstand the test of time? A dynamic theory-based view of strategy*, by Vinicius Picanco Rodrigues [Abstract](#)

*Circular Economy as an aid for small-sized companies in times of COVID: an exploratory case study*, by Federico Barnabè [Abstract](#)

*Developing Adaptive Logic Models for Planning and Evaluation of Convergence Research Programs*, by Lisa Gajary, Shalini Misra, Anand Desai [Abstract](#)

*How to ramp-up a new product in demand shock: evidence from Ventilator Challenge UK*, by Nikolai Kazantsev, Oleksii Petrovskyi [Abstract](#)

*A resource-based system-dynamics simulation platform for networked crisis management training and exercises*, by Bjorn Bakken [Abstract](#)

**15:00 Mon Other:** Red Ribbon Event

**16:00 Mon**

**Parallel:** COVID-19 Modelling: Methodological Aspects

*Perfect Mixing in COVID Models*, by Robert Eberlein [Abstract](#)

*Simulation-based What-if Analysis for Controlling the Spread of Covid-19 in Universities*, by Navid Ghaffarzadegan [Abstract](#)

*Mathematical Model to Explain the Spread Performance of the Coronavirus (COVID-19) in Peru*, by Rosa Peregrina Gonzales Martínez, Micaela Chavez Durand, Jennifer Romina Paredes Cribilleros, Diana Lizeth Cruz León, Nayara Kei Brocca Tamashiro, Omar Hurtado [Abstract](#)

**Parallel:** Policy Tools for Sustainability

*Development of Decision making tool for Sustainable Technologies transition in Indian Transport sector, by NANDITA SARAF, Yogendra Shastri* [Abstract](#)

*Using system dynamics modelling to analyse the interplay of policies and societal motivation for promoting energetic renovation, by Christoph Schünemann, Christina Gkini, Birgit Kopainsky* [Abstract](#)

**Parallel:** Food and Health

*Lessons from building an applied policy model to reduce childhood overweight and obesity (2016-2021), by Jacqueline Davison, Mark Heffernan, Kenneth Lawson, Joe Xu, Geoff McDonnell* [Abstract](#)

*Assessing the Impacts Interventions on Fruit and Vegetable Consumption in Urban Kenya Using Participatory Systems Modeling, by Charles Nicholson* [Abstract](#)

*A Model for Campylobacter Contamination in Chicken Meat Production Systems, by Andrijana Horvat, Edien Rommens, Catherine DiGennaro, C Vandaalen, Pieterneel Luning, Mohammad Jalali* [Abstract](#)

**Feedback:** Human Behavior Feedback

*Analysis of decision-making factors for youth migration to rural areas using big data, by Soojin You* [Abstract](#)

*The Impact of Violating Behavior on Emergence of a New Norm, by Khadijeh Salimi* [Abstract](#)

*Understanding and overcoming the unfortunate resilience of our unsustainable socio-economic system., by Katharina Biely* [Abstract](#)

*Self-organizing as Source of the Civil Society's Transformational Dynamism in context of emerging Anthropocene, by Jozsef Veress* [Abstract](#)

**Parallel:** Alternative Approaches to Using Systems Thinking to Educate Students and Community Members

*Policy in Respond to COVID-19 School Closure Learning Loss among Primary School Students in the Netherlands, by Pei Shan Loo, Kathelijne Bax* [Abstract](#)

*Sustainability of Learning & Applying System Dynamics and Systems Thinking, by Rachel Matsumoto, William Liem, Ellen O'Neill, Hannah Levin, Saras Chung* [Abstract](#)

*Using Archetypes to Teach Systems Thinking in an Engineering Master's Course, by Meike Tilebein* [Abstract](#)

**Parallel:** Model Formulation

*Using Analytical Equations to Represent Nonlinear Relationships, by Juan Rios, Shayne Gary* [Abstract](#)

*Know Noise: Realistic Random Processes for Simulations, by Robert Nachtrieb, Tom Fiddaman, Ron Suiter, Thomas Erickson, Scott Johnson* [Abstract](#)

*Is Velocity Stock or Flow? A Note on Model Formulation, by Saeed Langarudi* [Abstract](#)

**WIP:** Public Policy WIP I

*Homelessness and Housing First Policy: A Case Study of Los Angeles Homelessness, by Dandan Kowarsch* [Abstract](#)

*Pathways towards Community Resilience: Social Capital and Experience Mitigating the Impacts of Infrastructure Disruptions, by Sara Peterson* [Abstract](#)

*Population Ageing in China, by Min Xiang* [Abstract](#)

*Addressing the challenges of rural areas in Europe (PoliRural), by Antoni Oliva* [Abstract](#)

*A dynamic perspective on the evolution of firefighting policy for the US urban sprawl, by Mariya Andreeva, Paulo Goncalves* [Abstract](#)

*Implications of delays in fleet turnover policy implementations, by Davood Qorbani, Emil Dimanchev, Magnus Korpås* [Abstract](#)

**WIP:** Energy WIP

*Peak oil and the minimum EROI for society, by Sabin Roman* [Abstract](#)

*Changing Minds about the Reliability of Renewables, by Paul Monus, William Ryder* [Abstract](#)

*A Multi-Level Perspective on Policy Resistance in the Energy Transition, by Lodewijk Emmen, Merel van der Wal* [Abstract](#)

*Electricity markets in remote Arctic communities - the dynamics of electricity cost under the impact of a mixed economy, by Magnus de Witt* [Abstract](#)

*The dynamics of feed-in tariff as a financial policy tool for sustainable Solar Photovoltaic generation in west Africa, Nigeria, by Babajide Shari, Olusegun Stanley Tomomewo, Hafiz Bello, Michael Mann* [Abstract](#)

*Modeling of Natural Gas Networks for Consequence Analysis, by Walt Beyeler, Andjelka Kelic, Kevin Stamber, Robert Taylor* [Abstract](#)

**17:30 Mon Other:** Networking

**18:00 Mon Other:** Model Expo

**19:30 Mon**

**Parallel:** Macroeconomics, chaired by David Wheat

*The Randers macro model of a modern capitalist economy with an active state. Main causal structure and base run.*, by Jorgen Randers [Abstract](#)

*ASD Macroeconomic Model of Japan on the Flow of Funds and National Accounts - Work-in-Progress Report on the Small Version* -, by Kaoru Yamaguchi, Yokei Yamaguchi [Abstract](#)

*Dynamic Planning Model for Donetsk and Luhansk*, by David Wheat, Alex Kononets, Diana Hutsul, Viktoriia Nazarenko, Maryna Paletska, Oleksii Petrovskyi, Viktoriia Surovets [Abstract](#)

**Parallel:** Strategies for Reducing Emissions

*System dynamics analysis of carbon dioxide reduction strategies for an environmental-friendly factory*, by Terukazu Ihara, Nobuaki Minato [Abstract](#)

*Electric motorcycles, keys to electric mobility in Colombia*, by Veronica Valencia-Hernandez, Santiago Arango [Abstract](#)

*Dynamics of the transition to renewable hydrogen*, by Reza Fazeli, Fiona J. Beck, Matt Stocks [Abstract](#)

**Parallel:** Malaria and Covid-19: Spread Dynamics

*An epidemiological compartmental model of malaria with host-vector interactions*, by Yaman Barlas, Hakan Yasarcan, Yesim Tozan, Sooyoung Kim, Joacim Rocklöv, Henrik Sjödin, Jane M. Carlton [Abstract](#)

*Exploring Conceptual Simulation Modeling to Develop a Strategic Perspective on Health System Malaria Response*, by Ellis Ballard [Abstract](#)

*A system dynamics analysis about the relationship between ventilation and the spread of COVID-19 in indoor spaces*, by Christian Soerup, Daniel Sepulveda Estay [Abstract](#)

**Parallel:** Using System Dynamics to Increase Education Effectiveness and Student Well-being

*A System Dynamics Model to Design a More Effective Education System*, by Mehdi Moghadam Manesh, Farboud Khatami [Abstract](#)

*A Systems Approach to Examining PhD Students' Well-Being: An Australian Case*, by NiNa Dhirasasna, Emiliya Suprun, Stefen MacAskill, Mehdi Hafezi, Oz Sahin [Abstract](#)

*The Benefits of System Dynamics Simulation for Sustainability Education*, by Caroline Brennan, Owen Molloy, Jim Duggan [Abstract](#)

**Parallel:** Modeling Process

*Adding a change resistance layer to integrated system models using root cause analysis and problem decomposition*, by Jack Harich [Abstract](#)

*Digital Engineering of Dynamic Business Models for Smart Product-Service Systems*, by Mario Bosslau [Abstract](#)

*Hybridizing Agent-Based with System Dynamics Models: Principles for Theory Development in Public Policy and Management Research*, by Lisa Gajary [Abstract](#)

**Parallel:** Operations Management Parallel Session

*The Tensor Approach to Enterprise Asset Management with a Root Cause Analysis Model*, by Alexander Lubiansky [Abstract](#)

*Sources of frustration in the Beer Distribution Game*, by Ivan Dula, Andreas Groessler [Abstract](#)

*Modeling the performance and cost dynamics of Lithium-ion Battery for Mobility*, by Bhanu Pratap, Krishna Mohan Thazhathu Valiyaveettil, R K Amit, Shankar Venugopal [Abstract](#)

**Parallel:** Renewable Energy Policy

*A System Dynamics Approach for Analysis of the Impacts of Bergen' Green Strategy Goal T9*, by Min Xiang [Abstract](#)

*Closing the mineral construction material cycle – An endogenous perspective on barriers in transition*, by Daniel Kliem, Alexander Scheidegger, Alexander Scheidegger, Birgit Kopainsky [Abstract](#)

**Feedback:** Resources Feedback

*SUSTAINABLE ENERGY MODELLING FOR THE NNAMDI AZIKIWE INTERNATIONAL AIRPORT, ABUJA, NIGERIA*, by Abdullahi Ayinde [Abstract](#)

*Severe Energy System Disruptions: An analysis of the 2021 Texas Winter Storm Blackout*, by David Dyer, Michael Rosati, Olusegun Stanley Tomomewo, Michael Mann, Scott Johnson [Abstract](#)

*Model for scenario analysis in the inclusion of non-conventional renewable resources in the Colombian energy matrix.*, by Juan Felipe Parra, Santiago Arango, Yris Olaya [Abstract](#)

*Regional food systems infrastructure: what are the beneficial tipping points?*, by April Roggio [Abstract](#)

*Towards a more Resilient Rare Earth Supply Chain with product recycling in the EU*, by Zhijie Li, Benjamin Sprecher [Abstract](#)

*Integrating Circular Economy and Reverse Logistics for Sustainable Dairy Operation*, by Mohammad Shamsuddoha [Abstract](#)

**21:00 Mon**

**WIP:** Reimagining Our Future

*No food to waste: the dynamic processes that explain food waste in the Netherlands*, by Simone Peters, Inge Bleijenbergh [Abstract](#)

*A Systems Dynamics Approach to Reaching the Sustainable Development Goals*, by Takuma Ono, Ivan Taylor [Abstract](#)

*Improving Public Perceptions on Water Resource Policies*, by Lauren Kirkpatrick, Allyson Beall King [Abstract](#)

*Integrated Electricity Planning as a Pathway to Achieving Nationally Determined Contribution of Oil Rich Sub Saharan Africa*, by nkechiwetalu nwankwo, Titus Olaniyi, Abiodun Suleiman Momodu [Abstract](#)

*Shipping Dynamics of an Emerging Arctic*, by Joseph Klein, Dandan Kowarsch [Abstract](#)

*The Issue of Space Debris: Preventing Tragedy in Low Earth Orbit*, by Besir Suleyman Oz [Abstract](#)

**WIP:** Health Services WIP

*Effect of Specific Group Model Building Activities on Stakeholders*, by Larissa Calancie, Kelsey Werner, Julia Appel, Erin Hennessy, Travis Moore, Deanna Nappi, Christina Economos [Abstract](#)

*Integrating Best Available Evidence for Pediatric Severe Traumatic Brain Injury in the Intensive Care Unit through CBSD*, by Mia Vogel, David V. Habif, Jose Pineda Soto [Abstract](#)

*Overcoming Accidental Adversaries in Healthcare through a Design Canvas*, by Ralph Asuncion [Abstract](#)

*A System Dynamic Modeling Approach to addressing the Surgical Workforce Crisis*, by Julie Maurer [Abstract](#)

*The Impact of R&D Decisions on the Downstream Immunization System in Low- and Middle-Income Countries.*, by Laurent Smets, Catherine Decouttere, Nico Vandaele [Abstract](#)

*Simulation-based What-if Analysis for Georgia Vaccination Distribution Policy*, by Melanie Cardenas, Amin Esmaeili [Abstract](#)

**Parallel:** Systems Thinking: Teaching and Assessment

*Creating Assessment Questions for Systems Thinking Concepts*, by Diana Fisher, Emre Goktepe [Abstract](#)

*The Changing Language of Education with System Thinking*, by Meltem Ceylan Alibeyoglu, Ulkem Yararbas, Emre Goktepe [Abstract](#)

*IMPROVING 10th GRADERS' UNDERSTANDING OF GLOBAL CARBON CYCLE: A SYSTEM LEARNING APPROACH*, by Ezgi Atmaca [Abstract](#)

**Parallel:** Structural Racism

*System Dynamics and Structural Racism: A Scoping Review*, by Irene Headen, Mikayla Branz, Ellis Ballard [Abstract](#)

*Housing Finance: A Vestige of Systemic Racism?*, by John Voyer [Abstract](#)

*A Model to Assist Leaders Increase Diversity in their Organizations*, by Ivan Taylor, Stan Isbrandt, Eliot Rich, Mia Vogel [Abstract](#)

**23:00 Mon Other:** Roundtables

**Tuesday July 27**

**07:00 Tue Other:** Mindfulness Meditation, chaired by Linda Hirsch

**08:00 Tue Other:** Networking

**08:30 Tue Plenary:** Presidential Address

**09:00 Tue Plenary:** Jay W. Forrester Award Presentation

**10:00 Tue Other:** Exhibitor Pecha Kucha

**10:30 Tue**

**Parallel:** COVID-19: Quantifying Models of Contagion

*Risk-driven responses to COVID-19 eliminate the tradeoff between lives and livelihoods*, by Hazhir Rahmandad, Tse Yang Lim [Abstract](#)

*Improving Parameter Estimation of Epidemic Models: Likelihood Functions and Kalman Filtering*, by Tianyi Li, Hazhir Rahmandad, John Sterman [Abstract](#)

*Estimation of Weather Effect on SARS-CoV-2 Transmission: Methodological Considerations*, by Ran Xu, Hazhir Rahmandad, Navid Ghaffarzadegan, Mohammad Jalali [Abstract](#)

**WIP:** COVID-19: Policy and Decision Making

*Antivax Movement Under Impact of COVID 19*, by Pei Shan Loo [Abstract](#)

*Why the restrictions imposed by the government due to the COVID-19 pandemic did not work properly in Peru?*, by Jhon Coaquira, Angela Suaña, Walter Aliaga [Abstract](#)

*Using System Dynamics Models as Policy Decision Support Tools for the COVID-19 Epidemic Control in Thailand*, by Borwornsom Leerapan, Rapeepong Suphanchaimat, Phanuwich Kaewkamjonchai, Wararat Jaichuen, Pard Teekasap, Vorasith Sornsrivichai, Pathomphorn Siraprapasiri, Kwanpracha Chiangchaisakulthai, Panithee Thammawijaya [Abstract](#)

*Dynamic effects of COVID-19 on Human Behavior and Decision Making*, by Will Noyes [Abstract](#)

*Will Two Waves of the Pandemic Negate Four Waves of Feminism? Impact of COVID-19 on Women Clinical and Translational Scientists*, by Mia Vogel, Ivan Taylor, Bobbi Carothers, Douglas A. Luke [Abstract](#)

*A DYNAMIC SIMULATION ESTIMATION OF THE SPREAD OF COVID-19 AND ITS EFFECTS ON INDONESIA'S ECONOMY*, by Lukas Sihombing [Abstract](#)

**Parallel:** Seeking a Livable Climate Future

*Modelling global futures: a comparison of 'Limits to Growth' and the use of Integrated Assessment Models in climate science*, by Ben Purvis [Abstract](#)

*Building consensus for ambitious climate action: The World Climate simulation shifts climate change beliefs and values*, by Juliette Rooney-Varga, Margaret Hensel, Carolyn McCarthy, Karen McNeal, Nicole Norfles, Kenneth Rath, Audrey Schnell, John Sterman [Abstract](#)

*The nexus of international policies for climate protection and resource efficiency – the future needs to be shaped*, by Kai Neumann [Abstract](#)

**WIP:** Human Behavior WIP

*Towards a Hybrid Modeling and Simulation Framework for Behavioral Analysis*, by Athary Alwasel, Masoud Fakhimi, Wolfgang Garn, Lampros Stergioulas [Abstract](#)

*Psychosocial Risks in Labor – How Occupational Workloads, Life Situations, and Coping Strategies Interact*, by Adrian Staempfli, Alexander Scheidegger [Abstract](#)

*Community-based system dynamics for shifting diets for a sustainable food future*, by Guus Luijben [Abstract](#)

*Learning to survive & thrive with a little help from SD*, by Braveheart Gillani, Sebastiaan Deuten, Corne Du Plooy, Catherine Decouttere [Abstract](#)

*The Terrible Bargain: Gendered Trust Disparities, Intimate Sexism & Male Accountability in Ostensibly Caring Relationships*, by Sarah Pritchard, Lucy Puckett, Andrew Brown [Abstract](#)

*Causal loop building of the perceptions of violence and opportunities for safe spaces among adolescents in rural Colombia*, by Eduardo De la Vega [Abstract](#)

**Parallel:** Categorizing Systems Thinking (ST) Skills and Using ST/SD to Address Correlation Issues

*A Multidimensional Comprehension Index of Systems Thinking*, by NingYuan Liu, Hesam Mahmoudi [Abstract](#)

*Does classroom teaching of system dynamics concepts reduce correlation heuristic reliance? A case study from India*, by Gitanshu Choudhary, Akash K Rao, Varun Dutt [Abstract](#)

*Representing feedback in a computable stock/flow model*, by Khalid Saeed [Abstract](#)

**Feedback:** Methods Feedback

*Fault: System Models for Distributed Computer Systems*, by Marianne Bellotti [Abstract](#)

*Electricity Generating Plant Capacity Allocation Based on Alternative Priority Settings*, by Nalini Sooknanan Pillay, Andries Botha [Abstract](#)

*Adaptation of a System Dynamics generic structure applied in resilience studies in Latin-America*, by Nathalia Niño Giraldo, Igor Czermainski de Oliveira [Abstract](#)

*Achieving Universal Health Coverage in Nigeria Health Sector*, by Tolulope Bakare, Oluwabunmi Falebita, Babajide Shari [Abstract](#)

*Exploring mental models of value-based payment arrangements in healthcare*, by Stephan Brown [Abstract](#)

**Parallel:** Disaster Resilience and Mitigations

*The cyclic pattern of wildfire as an outcome of a coupled human-natural system*, by Farshad Farkhondehmaal, Navid Ghaffarzadegan [Abstract](#)

*Dynamic Resourcing Strategies for Community Disaster Recovery*, by Rameez Qureshi, David Ford, Chuck Wolf [Abstract](#)

*Nutritional Dilemma: Why Don't We Produce As Much Sorghum As We Desire to Consume? What Can We Do About That?*, by Chintan Vaishnav, Shalander Kumar, ABHISHEK DAS [Abstract](#)

**Parallel:** Electricity Markets and Decarbonization

*Automotive battery packs at the crossroads: modelling the impact of second life choices*, by Tainara Volan, Caroline Rodrigues Vaz, Mauricio Uriona Maldonado, Peter Erskine Wells [Abstract](#)

*Implementation of carbon reduced cement manufacturing - A concrete example*, by Wuzhi Shen, Tone Wisnes [Abstract](#)

*Low Carbon Futures with Carbon Capture and Storage: Interactions between Technology-Push Policies and Market Mechanisms*, by Eduard Romanenko [Abstract](#)

**12:00 Tue Plenary:** New Ways to Use Simulation

*Using simulations as test beds for social science research methods through DARPA's Ground Truth Program*, by Adam Russel [Abstract](#)

*Integrating Simulation, Machine Learning and High-performance Computing with EMEWS*, by Jonathan Ozik [Abstract](#)

*Visual HPC Workflows for the Analysis of System Dynamics Models*, by Brian Bush, Danny Inman [Abstract](#)

**13:30 Tue Other:** Laughter Yoga (15 minutes)

**14:00 Tue**

**Poster**Business Applications A

*On the competition for highly skilled workers in a scarcity-driven context*, by Victor Lima [Abstract](#)

*The Case for Applying Systems Thinking to Global Supply Chain Management*, by Daniel Gardner [Abstract](#)

*Exogenous vs. Endogenous: The Challenge of Coffee Price Dynamics*, by Juan Daniel Alvarez-Cadena, Camilo Olaya [Abstract](#)

**Poster**Systems Thinking: Modelling and Methods A

*Does Produced Water Management Need Hybrid System Dynamics and Agent-Based Modeling?*, by Saeed Langarudi, Robert Sabie, Babak Bahaddin, Alexander Fernald [Abstract](#)

*Software Interface Between Systems Dynamics and Data Science*, by Ange Lionel Toba [Abstract](#)

*A Diffusion Model with Applications to Broadband Internet.*, by Kude Hassan [Abstract](#)

*Optimization of Virtual Machines Placement in Large Datacenters*, by Ivan Perl, Aleksandr Penskoi, Olga Perl, Sheetal Garg [Abstract](#)

*Adaptation of Systems Thinking in the K-12 International Baccalaureate Program*, by özgün çetinkaya [Abstract](#)

*A Tale of Two Mentees: Conceptualizing Academic Mentorship through System Thinking*, by Autumn Asher BlackDeer, Braveheart Gillani, Flora Cohen, Mia Vogel [Abstract](#)

**Poster**Sustainability A

*Systems Tools for Supporting Strategic Decision Making at the U.S. Army Corps of Engineer*, by Hyunjung Kim, Rod MacDonald, Michael Deegan [Abstract](#)

*Why Achieving a Sustainable Transportation System Seems Impossible for Tehran*, by Mehdi Moghadam Manesh, Farboud Khatami [Abstract](#)

*Effects of drought on the inland shipping sector: a system dynamics study of river transport on the Dutch Rhine*, by Michiel Rockx, Floortje d'Hont [Abstract](#)

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**Poster**New Approaches to Participative Modelling A

*Building a shared understanding for carsharing concept using remote GMB workshops*, by Peraphan Jitraprirom [Abstract](#)

*Combining systemic analysis with realist review: Collaborative sense-making of waste minimisation program theory in Aotearoa*, by Sudesh Sharma, Suzanne Manning [Abstract](#)

*Roundtable on Obesity Solutions Systems Mapping of Solutions*, by Peter Hovmand, Larissa Calancie, Melanie Houston, Christina Economos [Abstract](#)

**14:45 Tue****Poster**COVID-19 Posters A

*Simulating the immune system response to Covid 19: Why cytokine storms develop, and how to prevent this fatal condition*, by Raafat Zaini, Kenneth Cooper [Abstract](#)

*Tourism Industry during a Pandemic*, by Takayuki Yamashita [Abstract](#)

*Localisation Modelling Youth Education to Drive Advocacy in Covid 19*, by Maurice Glucksman, Kim Warren [Abstract](#)

*The Long-Term Effects of the COVID Pandemic on Human Capital*, by Michael Bean, Joao Pedro Azevedo [Abstract](#)

**Poster**Economics and Operations Dynamics A

*COVID-19 Pandemic, Adopted Policies, and Side Effects of Social Distancing on Global Economy and International Finance*, by Amir Moradi [Abstract](#)

*A Transformation of the Growth Cycle into the Industrial Cycle in a Four-Dimensional Goodwinian Model with Leontief Technology*, by Alexander Ryzhenkov [Abstract](#)

*Toward a Theory of the Evolution of the Global Political Economy: Competition between Liberal and Coordinated Market Economies*, by Garry Piépenbrock [Abstract](#)

*HERDAIRY MODEL: MAPPING DYNAMICS OF DAIRY FARMS TO SUPPORT HERD MANAGEMENT*, by Alberto Stanislao Atzori, Büsra Atamer Balkan, Antonio Gallo [Abstract](#)

**Poster**Health Research and Action A

*A System Dynamics Model to Scrutinize Underlying Reasons for Poor Prescription Adherence (Case Study: Antibiotic Consumption)*, by Mehdi Moghadam Manesh, Mahshid Zolfaghari [Abstract](#)

*Evaluation of the European School Fruit and Vegetable Scheme*, by Mahshid Zolfaghari, Nanna Lien, Biljana Meshkovska [Abstract](#)

*Modelling demand for mental-health services and capacity to treat that demand*, by Kim Warren [Abstract](#)

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*1952's the Great Smog, Exploring the Past with Simulations.*, by Francisco Araujo, Bertha Baez [Abstract](#)

*Passive aggressiveness: the story of unfulfilled love and suppressed anger*, by Andra Blumberga [Abstract](#)

#### PosterPublic Policy Issues A

*A Highly Stylized Model of Corruption in the Brazilian Public Sector*, by Adilson Sampaio, Paulo Figueiredo, Elisabeth Loiola, Luciano M C Doria, Renelson Sampaio [Abstract](#)

*Institutional Change to Control Corruption: Moving from Econometrics to System Dynamics*, by Ivan Taylor, Muhammad Aman Ullah, Mark Sandoval [Abstract](#)

*Exploring the Intersection of Incarceration and Health*, by Rebecca Niles, Kristina Wile, Gary Hirsch [Abstract](#)

*It Is Not My Fault*, by Gloria Perez Salazar, Paola Garcia Vazquez, Sandra Vazquez Guerra, Daniela Vide Martinez [Abstract](#)

*Why a Case Management Service based on a Data-derived Risk Assessment Score did not Work*, by Douglas McKelvie [Abstract](#)

**15:30 Tue Other:** Happy Half Hour (30 minutes)

**16:00 Tue Other:** Banquet: Magician (45 minutes)

**17:00 Tue Other:** Happy Half Hour (30 minutes)

**17:30 Tue Other:** Networking

**18:00 (echo) PlenaryDiscussion: COVID-19 Pandemic (Lake Michigan)**

*Behavioral dynamics of COVID-19: estimating under-reporting, multiple waves, and adherence fatigue across 92 nations*, by Hazhir Rahmandad, Tse Yang Lim, John Sterman [Abstract](#)

*Responding to the COVID-19 Pandemic: Epidemiological Modeling on Speed Dial*, by Charles Macal [Abstract](#)

*Global Realignment in Financial Market Dynamics: Evidence from ETF Networks*, by Mila Getmansky Sherman [Abstract](#)

**19:30 Tue**

#### Parallel: Business Models

*Insurance Claim Operations*, by Go Ezaki, Yutaka Takahashi [Abstract](#)

*Promoting Success of Women of Color Entrepreneurs in the United States*, by Rowland Chen, Ivan Taylor, Saroj Koul, Takuma Ono, Mia Vogel [Abstract](#)

*Trust Dynamics During Early Alliance Operation: The Role of Partner Engagement*, by Florian Kapmeier, Jeroen Struben [Abstract](#)

#### Parallel: Sustainability and Social Dynamics

*Resource dependency as the foundation of sustainability and resilience theory*, by William Grace [Abstract](#)

*Societal dynamics of low-carbon lifestyles*, by Sibel Eker [Abstract](#)

*Identifying Climate Adjacency using Participatory Systems Thinking*, by Mihir Mathur, Kabir Sharma [Abstract](#)

#### Parallel: Tobacco and Opiod Use

*Reducing Opioid Use Disorder and Overdose in the United States: Model Development and Estimation*, by Tse Yang Lim, Erin Stringfellow, Celia Stafford, Catherine DiGennaro, Jack Homer, Wayne Wakeland, Lukas Glos, Reza Kazemi-Tabriz, Mohammad Jalali [Abstract](#)

*Reducing Opioid Use Disorder and Overdose in the United States: Policy Analysis*, by Erin Stringfellow, Tse Yang Lim, Celia Stafford, Catherine DiGennaro, Jack Homer, Wayne Wakeland, Mohammad Jalali [Abstract](#)

*Complexities of modelling tobacco use and its related disease burden*, by Jacqueline Davison, Haitham Taha, Danielle Currie [Abstract](#)

#### Parallel: Increasing Confidence in Models

*Building More Robust System Dynamics Models Through Validation*, by William Schoenberg, Jeremy Swartz [Abstract](#)

*Structural Control Analysis of System Dynamics Models*, by Tianyi Li, Rogelio Oliva [Abstract](#)

*Improving Loops that Matter*, by William Schoenberg, John Hayward, Robert Eberlein [Abstract](#)

#### Parallel: Supply Chain Dynamics

*Resilience for Smallholder Farmers during Pandemic: Model Conceptualization for Agriculture and Food Supply Chain Dynamics*, by Büsra Atamer Balkan, Hector Menendez, Andreas Nicolaidis Lindqvist, Kelechi Odoemena, Bob Lamb, Monique Ann Tiongco, Stueti Gupta, Arpitha Peteru [Abstract](#)

*Dynamic Supply Chains with Endogenous Allocation*, by James Paine [Abstract](#)

*The Evolution of Trust in Supply Chains: A Feedback Approach*, by Jose Luis Lopez, James Paine [Abstract](#)

#### WIP: Public Policy WIP II

*Resilient Communities: Achieving and Sustaining Equitable Communities Through Systems Modeling*, by Abdulrahim Sheikhnureldin [Abstract](#)

*Sexual and Gender Minority Youth in Foster Care Model Based On Minority Stress Theory*, by Dana Prince, Meagan Ray-Novak, Braveheart Gillani, Emily Peterson [Abstract](#)

*A Synthesized Analysis of the Effects of Institutional Bias in the US*, by Kristina Wile [Abstract](#)

*Understanding the Role of Values-Based Institutional Food Procurement in Overcoming Barriers Experienced by Black Farmers*, by Jessica Gilbert [Abstract](#)

*A Systems Thinking Archetype to Understand, Analyze and Anticipate the Evolution of International Crises*, by Stefano Armenia, Eduardo Franco, Georgios Tsaples [Abstract](#)

**WIP:** Agriculture, Food, and Drinking Water

*Despite modern advancements in cropping systems, why does herbicide resistance continue to outpace human innovation?*, by Srinadh Kodali, Chris Flores-Lopez, Benjamin Turner, Steven Chumbley [Abstract](#)

*Modelling the Water-Energy-Food Nexus: A System Dynamics Approach*, by Chin Howe Toh, Bellam Sreenivasulu [Abstract](#)

*Reliability of drinking water supply in times of drought: exploring policy options for the Biesbosch, the Netherlands*, by Pepijn Kruseman Aretz, Floortje d'Hont [Abstract](#)

*Revisiting the 1976 Vermont dairy model, a historical retrospective: what can we learn?*, by April Roggio [Abstract](#)

*Chicken and Egg - A Flight Simulator for Small-Scale Poultry Farm (SSPF) Management Optimization*, by Kelechi Odoemena, Thomas Wittig [Abstract](#)

**Parallel:** New Developments in Participative Modelling

*Participative modeling in transitions –Uncovering emerging insights*, by Daniel Kliem, Katrin Huegel, Alexander Scheidegger, Birgit Kopainsky [Abstract](#)

*Comparing Causal Loop Diagrams: thematic analysis to elicit differences in system boundary perceptions*, by Irene Pluchinotta, Giuseppe Salvia, Nici Zimmermann [Abstract](#)

*Group Model Building Scripts for Selecting and Tailoring Implementation Strategies*, by Kelsey Werner, Ellis Ballard, Pratiti Priyadarshini, Byron J. Powell, Gautam Yadama, Peter Hovmand [Abstract](#)

**21:00 Tue**

**Poster**Business Applications B

*On the competition for highly skilled workers in a scarcity-driven context*, by Victor Lima [Abstract](#)

*The Case for Applying Systems Thinking to Global Supply Chain Management*, by Daniel Gardner [Abstract](#)

*Exogenous vs. Endogenous: The Challenge of Coffee Price Dynamics*, by Juan Daniel Alvarez-Cadena, Camilo Olaya [Abstract](#)

**Poster**Systems Thinking: Modelling and Methods B

*Does Produced Water Management Need Hybrid System Dynamics and Agent-Based Modeling?*, by Saeed Langarudi, Robert Sabie, Babak Bahaddin, Alexander Fernald [Abstract](#)

*Software Interface Between Systems Dynamics and Data Science*, by Ange Lionel Toba [Abstract](#)

*A Diffusion Model with Applications to Broadband Internet.*, by Kude Hassan [Abstract](#)

*Optimization of Virtual Machines Placement in Large Datacenters*, by Ivan Perl, Aleksandr Penskoi, Olga Perl, Sheetal Garg [Abstract](#)

*Adaptation of Systems Thinking in the K-12 International Baccalaureate Program*, by özgün çetinkaya [Abstract](#)

*A Tale of Two Mentees: Conceptualizing Academic Mentorship through System Thinking*, by Autumn Asher BlackDeer, Braveheart Gillani, Flora Cohen, Mia Vogel [Abstract](#)

**Poster**Sustainability B

*Systems Tools for Supporting Strategic Decision Making at the U.S. Army Corps of Engineer*, by Hyunjung Kim, Rod MacDonald, Michael Deegan [Abstract](#)

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## 21:45 Tue

### Poster COVID-19 Posters B

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*HERDAIRY MODEL: MAPPING DYNAMICS OF DAIRY FARMS TO SUPPORT HERD MANAGEMENT*, by Alberto Stanislao Atzori, Büsra Atamer Balkan, Antonio Gallo [Abstract](#)

### Poster Health Research and Action B

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### Poster Public Policy Issues B

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*Why a Case Management Service based on a Data-derived Risk Assessment Score did not Work*, by Douglas McKelvie [Abstract](#)

## 23:00 (echo) Plenary Discussion: From Insights to Action (**Lake Michigan**)

*National Virtual Biotechnology Laboratory (NVBL)*, by Ignacio Martinez-Moyano [Abstract](#)

*Modeling for Real-World Decision Support, a History and Retrospective*, by Andjelka Kelic [Abstract](#)

*Sociocultural/Geopolitical Modeling & Assessment: Current Work and Research Frontiers*, by Michael Bernard [Abstract](#)

## Wednesday July 28

**07:00 Wed Other:** Mindfulness Meditation, chaired by Linda Hirsch

**08:00 Wed Other:** Networking

**08:30 Wed Plenary:** Equitable representation in Social Systems (**Chicago (Plenary)**)

*Doughnut Economics*, by Kate Raworth [Abstract](#)

*Machine Learning (ML) Fairness and ethical Artificial Intelligence (AI)*, by Donald Martin [Abstract](#)

**10:00 Wed Other:** Exhibitor Pecha Kucha

**10:30 Wed**

**Feedback:** Business Models Feedback

*Complexity Handling with System Dynamics and effect of human factors on value creation- Case study of a diversified company*, by Sarojkant Singh [Abstract](#)

*A dynamic model of nascent platform ecosystem in manufacturing*, by Nikolai Kazantsev, Oleksii Petrovskyi [Abstract](#)

*A simulation study of a large farm validating sustainable practices*, by Mohammad Shamsuddoha [Abstract](#)

*System Analysis and Evaluation of Ride-Hailing from Different Business Perspectives*, by Pia Regine Mingnon Negro, Bernd Kaltenhäuser, Heidrun Belzner, Klaus Bogenberger [Abstract](#)

*Exploring the interdependencies of entrepreneurial ecosystem using feedback-guided analysis for social enterprise resilience*, by Monique Ann Tiongco, Charlotte Kendra Gotangco, Maria Assunta Cuyegkeng [Abstract](#)

*The bank breakeven point, as a dynamic liquidity neutral that, considers the business model and external impacts such as covid-*, by Mark Sandoval [Abstract](#)

**Parallel:** COVID-19: The Diaries During and After Lockdown Project

*A Story-Telling Approach for Communicating COVID-19 Dynamics to the Public: The Diaries During and After Lockdown Project*, by Dan Gordon, David Andersen, Ali Mashayekhi, Babak Bahaddin, Hyunjung Kim [Abstract](#)

*Technical Details of a Model for Communicating COVID-19 Dynamics: The Diaries During and After Lockdown Project*, by Ali Mashayekhi, David Andersen, Dan Gordon, Babak Bahaddin, Hyunjung Kim [Abstract](#)

*Building a System Dynamics Curriculum for Communicating COVID-19 Dynamics to the Public: The Diaries During and After Lockdown*, by Hyunjung Kim, Ali Mashayekhi, Babak Bahaddin, Dan Gordon, David Andersen [Abstract](#)

*Social Media Issues Involved in Communicating COVID-19 Dynamics to the Public: The Diaries During and After Lockdown Project*, by Babak Bahaddin, David Andersen, Dan Gordon, Ali Mashayekhi, Hyunjung Kim [Abstract](#)

**WIP:** Managing Species in a Changing World

*The Challenge of Managing Wild Horses in the United States*, by Erica Rieder [Abstract](#)

*Sea Level Rise and a Species Range Expansion Drive New England Salt Marsh Human and Natural System Feedbacks*, by Michael Roy, Georgia Mavrommati [Abstract](#)

*Understanding Conflicts in Natural Resources Management: Using the American Prairie Reserve and their Local Communities*, by Amanda Medaries, Melissa Wuellner [Abstract](#)

*A systems approach to understanding Piping Plover production on off-channel sandpits along the Central Platte River*, by Taylor Cassidy, Melissa Wuellner [Abstract](#)

*Sustainability EU Fisheries*, by Erda Gercek [Abstract](#)

**WIP:** Community Health and Sustainability WIP

*Using Group Model Building to Understand Different Visions and Goals of Implementing Community Gardens in Rural Missouri*, by Stephanie Mazzucca, Sarah Pritchard [Abstract](#)

*Multi-finality in violence and suicide due to risk and protection among emerging adults in communities of color*, by Lauren DiGiovanni, Ann Marie White [Abstract](#)

*Delineating Hispanic Immigrant Lodging Workers' Allostatic Load Dynamics Through Systems Modeling*, by Weanne Estrada, Nasim Sabounchi, Kristen Hassmiller Lich, Sevil Sonmez, Yorghos Apostolopoulos [Abstract](#)

*Structural and Behavioral Validation of a Simulation Model to Inform Community Strategies that Reduce Opioid Overdose Fatality*, by Nasim Sabounchi, Mahdi M. Najafabadi, David Lounsbury, Terry Huang [Abstract](#)

*Simulating Fate and Transport of Volatile Organic Compounds (VOCs) inside Sewer Systems*, by Ying Li, Ariel Robinson, Hong Cheng (Herman) Tay, Mohammadyousef Roghani, Kelly G Pennell [Abstract](#)

*Our Gem or Toxic Soup: Mitigating Toxic Metal Release Resulting From Biogeochemical Processes*, by Tyler Opp, Allyson Beall King [Abstract](#)

**Parallel:** Models of Human Behavior

*Capturing Discrete Choice and Deliberation Time Endogenously Using Sequential Sampling and Accumulation-to-Threshold Principles*, by Jiangbo Gabe Yu [Abstract](#)

*Where Has the Passion Gone? The Dynamics of Non-Profit Workers' Passion Burnout and Intention to Leave*, by Jefferson Rajah [Abstract](#)

*The Effect of Trust in the containment of Covid-19 in Colombia*, by Jorge Andrick Parra Valencia [Abstract](#)

**WIP:** Information and Knowledge in the Context of Growth and Change

*Exploring Emerging Archetypes*, by Corne Du Plooy, Cynthia Garde [Abstract](#)

*Institutionalizing knowledge in a rapidly growing organization*, by Carrie Oliver, Sashoy Patterson [Abstract](#)

*Managing transitions or merely fishing in the dark?*, by Daniel Kliem [Abstract](#)

*Visual Attention and Gender: Evidence from the Beergame*, by Maria Guadalupe Arias, Juan Pablo Torres, Karla Padilla, Samuel Madariaga [Abstract](#)

*The application of Farmers, Bandits and Soldier Model in the age of Digital Transformation*, by Sander Zeijlemaker [Abstract](#)

**Feedback:** Public Policy and Supply Chain Feedback

*Getting to Zero: Transitioning Norway's Oil Industry*, by Victor Larsson, Jefferson Rajah [Abstract](#)

*Sector coupling in the transition to renewable energies: Where do households stand?*, by Davood Qorbani [Abstract](#)

*Intersecting inequalities in organizations: the pay gap*, by Mathijs Ambaum, Inge Bleijenbergh [Abstract](#)

*Supply and Service Chain Dynamics in a Digital Age: Going beyond the traditional usage of honeypot data*, by Sander Zeijlemaker, Michael von Kutzschenbach [Abstract](#)

**Parallel:** Natural Resources and the Commons

*Using System Dynamics to Scrutinize Behavioral Feedback Loops in Groundwater Management*, by Mehdi Moghadam Manesh [Abstract](#)

*Measurement versus Reporting: Levers to Improve Management of Commons*, by Saeed Langarudi, Carlos Silva, Alexander Fernald [Abstract](#)

*The trade-off between groundwater management and large-scale agricultural production: The case of pistachio production in Iran*, by Ali Akhavan, Paulo Goncalves [Abstract](#)

**12:00 Wed Plenary:** From Insights to Action II (**Chicago (Plenary)**)

*Structural Racism*, by Peter Hovmand [Abstract](#)

*Change: How to Make Big Things Happen*, by Damon Centola [Abstract](#)

*System Dynamics Review and publications 1985–2021*, by Juan Pablo Torres [Abstract](#)

**13:30 Wed Other:** Laughter Yoga (15 minutes)

**14:00 Wed Other:** Model Expo

**16:00 Wed Other:** Roundtable: Democratising System Dynamics As A Lingua Franca

*Democratising System Dynamics As A Lingua Franca*, by Martha Toy [Abstract](#)

**17:30 Wed Other:** Networking

**21:00 Wed**

**Parallel:** Impacts of COVID-19

*COVID-19 Impacts on Energy Availability in an Electricity Utility*, by Nalini Sooknanan Pillay [Abstract](#)

*The Impact of Vaccine Confidence on The Transmission of Infectious Disease*, by Nabeela Mumtaz, Jim Duggan [Abstract](#)

*The Economic Impact of COVID-19 on Colleges: A Stress Test Approach*, by Oleg Pavlov [Abstract](#)

**Parallel:** Dynamics of Natural Resources and Hazards

*Integrated Modeling for the Gulf of Mexico*, by Tom Fiddaman [Abstract](#)

*Waste minimisation program theory for Aotearoa New Zealand: system insights from a realist review*, by Sudesh Sharma, Suzanne Manning [Abstract](#)

*Exploring Forest Fire Dynamics with the Loop Stock Transform*, by Corne Du Plooy, Andries Botha [Abstract](#)

**Feedback:** Environment Feedback

*THE ROLE OF FLEXIBILITY IN THE EUROPEAN ELECTRICITY MARKET: INSIGHTS FROM A SYSTEM DYNAMICS PERSPECTIVE*, by Siamak Sheykha, Reinhard Madlener [Abstract](#)

**Parallel:** Conflict, Defense, and Security

*Using System Dynamics to Examine Alternative Futures for the Syrian Refugee Crisis*, by Ivan Taylor, Francisco Araujo [Abstract](#)

*System dynamics across three scales of Brahmaputra River Basin- Exploring a Himalayan social-hydrological system*, by Ryan Tan, Navarun Varma, Robert Wasson, Shukla Archarjee [Abstract](#)

*The lifecycle of zero-day vulnerabilities; knowledge driven escalation between attacker and defender*, by Sander Zeijlemaker [Abstract](#)

**23:00 (echo) Plenary**Discussion: New Ways to Use Simulation (**Lake Michigan**)

*Using simulations as test beds for social science research methods through DARPA's Ground Truth Program*, by Adam Russel [Abstract](#)

*Integrating Simulation, Machine Learning and High-performance Computing with EMEWS*, by Jonathan Ozik [Abstract](#)

*Visual HPC Workflows for the Analysis of System Dynamics Models*, by Brian Bush, Danny Inman [Abstract](#)

## Thursday July 29

**07:00 Thu Other:** Mindfulness Meditation, chaired by Linda Hirsch

**08:00 Thu**

**Workshop:** Get Started with Macro Modeling (Part 1 of 2), chaired by David Wheat, Marianna Oliskevych

*Get Started with Macro Modeling*, by David Wheat, Marianna Oliskevych, Alina Novik [Abstract](#)

**Workshop:** Starting from scratch: Better model construction, chaired by Leonard Malczynski

*Starting from scratch: Better model construction*, by Leonard Malczynski [Abstract](#)

**Workshop:** Play the Beer Game Online, chaired by Michael Bean, John Sterman

*Learn to Use and Facilitate the Online Version of the MIT Beer Game*, by John Sterman, Michael Bean [Abstract](#)

**Workshop:** Getting Started with Stella, chaired by Karim Chichakly, Robert Eberlein

*Getting Started with Stella*, by Karim Chichakly, Robert Eberlein, William Schoenberg, Sarah Davie [Abstract](#)

**Workshop:** Introduction to Vensim and the New Interface, chaired by Tom Fiddaman, Anthony Kennedy

*Introduction to Vensim and the New Interface*, by Tom Fiddaman, Anthony Kennedy [Abstract](#)

## 10:00 Thu

**Workshop:** Get Started with Macro Modeling (Part 2 of 2), chaired by David Wheat, Marianna Olskevych

**Workshop:** Using Loops that Matter to Learn About and Teach System Dynamics, chaired by William Schoenberg, Robert Eberlein

*Using Loops that Matter to Learn About and Teach System Dynamics*, by William Schoenberg, Robert Eberlein, Karim Chichakly, Sarah Davie [Abstract](#)

**Workshop:** Publish Your Interactive Simulations Online with Forio Epicenter, chaired by Michael Bean

*Publish Your Interactive Simulations Online with Forio Epicenter*, by Michael Bean [Abstract](#)

**Workshop:** System Dynamics MOOCs for sustainability transformation, chaired by Erling Moxnes

*System Dynamics MOOCs for sustainability transformation*, by Erling Moxnes, Ali Saysel, Pal Davidsen, Birgit Kopainsky, Nuno Videira, Paulo Goncalves, Andra Blumberga, Etiennne Rouwette [Abstract](#)

**Workshop:** Calibration in Vensim, chaired by Tom Fiddaman, Anthony Kennedy

*Calibration in Vensim*, by Tom Fiddaman, Anthony Kennedy [Abstract](#)

## 12:00 Thu Special: Dialog Session

### 14:00 Thu Other: Roundtables

### 16:00 Thu Other: Lifetime Achievement Award Ceremony

### 17:00 Thu Other: Other Awards Ceremony

### 17:30 Thu Other: Networking

## 18:00 Thu

**Workshop:** Live-Repeat: Starting from scratch: Better model construction (See Workshop 101), chaired by Leonard Malczynski

**Workshop:** Live-Repeat: Using Loops that Matter to Learn About and Teach System Dynamics (See Workshop #109), chaired by William Schoenberg, Robert Eberlein

**Workshop:** Virtual Methods for Developing Systems Thinkers across Generations, Work Groups and Geographies (Part 1 of 2), chaired by Tracy Benson, Sheri Marlin

*Virtual Methods for Developing Systems Thinkers across Generations, Work Groups and Geographies*, by Tracy Benson, Sheri Marlin, Jeff Heil [Abstract](#)

**Workshop:** Live-Repeat: Introduction to Vensim and the New Interface (See Workshop 112), chaired by Tom Fiddaman, Anthony Kennedy

## 20:00 Thu

**Workshop:** Feedback rich model construction with Powersim Studio, chaired by Leonard Malczynski, Jake Jacobson  
*Feedback rich model construction with Powersim Studio*, by Leonard Malczynski, Jake Jacobson [Abstract](#)

**Workshop:** Virtual Methods for Developing Systems Thinkers across Generations, Work Groups and Geographies (Part 2 of 2), chaired by Tracy Benson, Sheri Marlin

**Workshop:** Live-Repeat: Calibration in Vensim (See Workshop 113), chaired by Tom Fiddaman, Anthony Kennedy

## 22:00 Thu Special: Dialog Session

### 23:00 (echo) Plenary Discussion: Equitable representation in Social Systems (**Lake Michigan**)

*Doughnut Economics*, by Kate Raworth [Abstract](#)

*Machine Learning (ML) Fairness and ethical Artificial Intelligence (AI)*, by Donald Martin [Abstract](#)

## Friday July 30

### 08:00 Fri

**Workshop:** Climate Action Simulation and En-ROADS Training (Part 1 of 3), chaired by Florian Kapmeier

*Climate Action Simulation and En-ROADS Training*, by Florian Kapmeier [Abstract](#)

**Workshop:** Live-Repeat: Feedback rich model construction with Powersim Studio (See Workshop 100), chaired by Leonard Malczynski

**Workshop:** Getting Started with Ventity, chaired by Tom Fiddaman, Larry Yeager

*Getting Started with Ventity*, by Tom Fiddaman, Larry Yeager [Abstract](#)

**Workshop:** SDM-Doc: The System Dynamics Model Documentation and Assessment Tool, chaired by Ignacio Martinez-Moyano

*SDM-Doc: The System Dynamics Model Documentation and Assessment Tool*, by Ignacio Martinez-Moyano [Abstract](#)

**Workshop:** Making your Interfaces do Great Things with Stella Architect, chaired by Sarah Davie, Robert Eberlein  
*Making your Interfaces do Great Things with Stella Architect*, by Sarah Davie, Robert Eberlein, William Schoenberg  
[Abstract](#)

**Workshop:** From Problem Oriented to System Oriented Modelling, chaired by Michel Kuijjer, Arjen Ros  
*From Problem Oriented to System Oriented Modelling*, by Michel Kuijjer, Arjen Ros, Egbert Roos, Michel Kuijjer  
[Abstract](#)

**Workshop:** Approaches to Designing Community-Based Modeling Projects, chaired by Kelsey Werner, Ellis Ballard  
*Approaches to Designing Community-Based Modeling Projects*, by Kelsey Werner, Ellis Ballard, Birgit Kopainsky  
[Abstract](#)

## 10:00 Fri

**Workshop:** Climate Action Simulation and En-ROADS Training (Part 2 of 3), chaired by Florian Kapmeier

**Workshop:** Teaching Students to Create Original Models in a Ten-Week Course, chaired by Diana Fisher  
*Teaching Students to Create Original Models in a Ten-Week Course*, by Diana Fisher [Abstract](#)

**Workshop:** Optimization, sensitivity, and user defined functions in Powersim Studio, chaired by Leonard Malczynski  
*Optimization, sensitivity, and user defined functions in Powersim Studio*, by Leonard Malczynski, Jake Jacobson  
[Abstract](#)

**Workshop:** Advanced Ventity - Actions, Relationships & Data, chaired by Tom Fiddaman, Larry Yeager  
*Advanced Ventity - Actions, Relationships & Data*, by Tom Fiddaman, Larry Yeager [Abstract](#)

**Workshop:** Different approaches to COVID Modeling with Stella, chaired by Robert Eberlein, William Schoenberg  
*Different approaches to COVID Modeling with Stella*, by Robert Eberlein, William Schoenberg, Sarah Davie, Karim Chichakly [Abstract](#)

## 11:30 Fri Workshop: Climate Action Simulation and En-ROADS Training (Part 3 of 3), chaired by Florian Kapmeier

## 18:00 Fri

**Workshop:** Live-Repeat: Get Started with Macro Modeling (See Workshop 106 Part 1 of 2), chaired by David Wheat, Marianna Oliskevych

**Workshop:** Building applications or flight simulators in Powersim Studio, chaired by Leonard Malczynski  
*Building applications or flight simulators in Powersim Studio*, by Leonard Malczynski, Jake Jacobson [Abstract](#)

**Workshop:** Live-Repeat: Teaching Students to Create Original Models in a Ten-Week Course (See Workshop 105), chaired by Diana Fisher

**Workshop:** Live-Repeat: Getting Started with Ventity (See Workshop 114), chaired by Tom Fiddaman, Anthony Kennedy

## 20:00 Fri

**Workshop:** Live-Repeat: Get Started with Macro Modeling (See Workshop 118 Part 2 of 2), chaired by David Wheat, Marianna Oliskevych

**Workshop:** Live-Repeat: System Dynamics MOOCs for sustainability transformation (See Workshop 269), chaired by Erling Moxnes

**Workshop:** Live-Repeat: Advanced Ventity - Actions, Relationships & Data (See Workshop 116), chaired by Tom Fiddaman, Larry Yeager

## 23:00 (echo) Plenary Discussion: From Insights to Action II (**Lake Michigan**)

*Structural Racism*, by Peter Hovmand [Abstract](#)

*Change: How to Make Big Things Happen*, by Damon Centola [Abstract](#)

*System Dynamics Review and publications 1985–2021*, by Juan Pablo Torres [Abstract](#)

## Monday August 2

### 16:00 Mon Meeting: South African Chapter Annual Meeting, chaired by Nalini Sooknanan Pillay

## Tuesday August 3

### 15:00 Tue Meeting: Nigeria Chapter Annual Meeting, chaired by Oluwabunmi Falebita, Tolulope Bakare

### 20:00 Tue Meeting: China Chapter Annual Meeting, chaired by Haiyan Yan

## Wednesday August 4

### 17:00 Wed Meeting: Oceania Chapter Annual Meeting, chaired by Chris Browne

### 20:00 Wed Meeting: Korean Chapter Annual Meeting, chaired by Benjamin Chang-Kwon Chung

**24:00 Wed Meeting:** India Chapter Annual Meeting, chaired by Karan Khosla

### **Thursday August 5**

**19:00 Thu Meeting:** Japan Chapter Annual Meeting, chaired by Nobuhide Tanaka

**22:00 Thu Meeting:** Indonesia Chapter Annual Meeting, chaired by Pipin Novianti Sadikin, Indah Victoria Sandroto

**24:00 Thu Meeting:** Pakistan Chapter Annual Meeting, chaired by Ijaz Yusuf

### **Friday August 6**

**01:00 Fri Meeting:** Iran Chapter Annual Meeting, chaired by Babak Bahaddin

**23:00 Fri Meeting:** Russian Chapter Annual Meeting, chaired by Natalia Lychkina

### **Monday August 9**

**04:00 Mon Meeting:** Africa Regional Chapter Annual Meeting, chaired by Ddembe Williams

**09:00 Mon Meeting:** Capítulo Brasileiro Annual Meeting, chaired by Niraldo Nascimento, Raquel Froese Buzogany

**21:00 Mon Meeting:** Latin American Chapter Annual Meeting, chaired by Gloria Perez Salazar

### **Tuesday August 10**

**03:00 Tue Meeting:** German Chapter Annual Meeting, chaired by Andreas Groessler

**09:00 Tue Meeting:** Society Program Oversight Committee Meeting, chaired by Sara Metcalf

**10:00 Tue Meeting:** Awards Committee Meeting, chaired by Erling Moxnes

### **Wednesday August 11**

**01:00 Wed Meeting:** Asia Pacific Coordinating Council Meeting, chaired by Jenson Goh

#### **03:00 Wed**

Meeting: Swiss Chapter Annual Meeting, chaired by Rolf Widmer

Meeting: BeNeLux Annual Meeting, chaired by Guido Veldhuis

**10:00 Wed Meeting:** Jay W. Forrester Award Sub-Committee Meeting, chaired by Erling Moxnes

### **Thursday August 12**

**01:00 Thu Meeting:** ASEAN Chapter Annual Meeting, chaired by Bellam Sreenivasulu

**03:00 Thu Meeting:** Italian Chapter (SYDIC) Annual Meeting, chaired by Alberto Stanislao Atzori

**11:00 Thu Meeting:** Community Service Award Sub-committee Meeting, chaired by David Andersen

### **Friday August 13**

**04:00 Fri Meeting:** United Kingdom Chapter Annual Meeting, chaired by John Hayward

**12:00 Fri Meeting:** Dana Meadows Award Sub-committee Meeting, chaired by Tom Fiddaman

### **Monday August 16**

**10:00 Mon Meeting:** Agriculture & Food Special Interest Group Annual Meeting, chaired by Alberto Stanislao Atzori, Hector Menendez

**11:00 Mon Meeting:** Asset Dynamics Special Interest Group Annual Meeting, chaired by Arjen Ros, Michel Kuijer

**12:00 Mon Meeting:** Biomedical Special Interest Group Annual Meeting, chaired by Edward Gallaher, Jim Rogers

### **Tuesday August 17**

**10:00 Tue Meeting:** Business SIG, chaired by Seth Cordes

**11:00 Tue Meeting:** Conflict, Defense, and Security Special Interest Group Annual Meeting, chaired by Anne M. Johnson, Asmeret Naugle

**12:00 Tue Meeting:** Economics Special Interest Group Annual Meeting, chaired by Michael Radzicki

### **Wednesday August 18**

**10:00 Wed Meeting:** Education Special Interest Group Annual Meeting, chaired by Carol Frances, Michael Kennedy

**11:00 Wed Meeting:** Energy Special Interest Group Annual Meeting, chaired by George Matthew

**12:00 Wed Meeting:** Environmental Special Interest Group Annual Meeting, chaired by Jennifer Johnson

### **Thursday August 19**

**10:00 Thu Meeting:** Health Policy Special Interest Group Annual Meeting, chaired by Mohammad Jalali, Navid Ghaffarzadegan

**11:00 Thu Meeting:** Model Analysis Special Interest Group Annual Meeting, chaired by James Houghton

**12:00 Thu Meeting:** Pre-College Education Special Interest Group Annual Meeting, chaired by Diana Fisher, Lees Stuntz

### **Friday August 20**

**11:00 Fri Meeting:** Social Impact Special Interest Group Annual Meeting, chaired by Angelika Schanda, Bob Lamb

**12:00 Fri Meeting:** Structural Racism Special Interest Group Annual Meeting, chaired by Peter Hovmand, Irene Headen

### **Monday August 23**

**10:00 Mon Meeting:** Transportation Special Interest Group Annual Meeting, chaired by Gillian Harrison, Simon Shepherd

**11:00 Mon Meeting:** Water Special Interest Group Annual Meeting, chaired by Yining Bai, Babak Bahaddin

**12:00 Mon Meeting:** Student Chapter Annual Meeting, chaired by Kelechi Odoemena

### **Tuesday August 24**

**10:00 Tue Meeting:** Nominating Committee Meeting, chaired by Birgit Kopainsky

**11:00 Tue Meeting:** Organization and By-Laws Committee Meeting, chaired by J. Bradley Morrison

**12:00 Tue Meeting:** Publications Committee Meeting, chaired by

### **Wednesday August 25**

**11:00 Wed Meeting:** Strategy Development Committee Meeting, chaired by Paulo Goncalves

**12:00 Wed Meeting:** Executive Committee Meeting, chaired by Paulo Goncalves

### **Thursday August 26**

**10:00 Thu Meeting:** Finance Committee Meeting, chaired by Eliot Rich

**12:00 Thu Meeting:** Applications Award Subcommittee Meeting, chaired by J. Bradley Morrison

### **Friday August 27**

**10:00 Fri Meeting:** XMILE Technical Committee Meeting (open meeting), chaired by Karim Chichakly

**11:00 Fri Meeting:** SD Tools/XMILE User Group Meeting, chaired by Karim Chichakly

**12:00 Fri Meeting:** Psychology and Human Behavior Special Interest Group Annual Meeting, chaired by David Lounsbury, Pascal Gambardella

**24:00 Fri Meeting:** Online peer mentoring groups – give and receive feedback on your system dynamics work Annual Meeting, chaired by Kelechi Odoemena, Andrijana Horvat

**System Dynamics Society**

Tentative schedule updated: June 12, 2021.