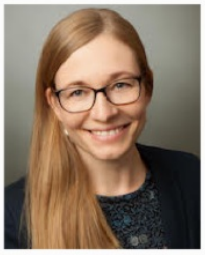
SESYNC Feedbacks

News from the National Socio-Environmental Synthesis Center


Vanessa Schweizer	**Hannah Kosow**	**Sondoss El Sawah**	**Martin Cenek**	**Rebecca Kariuki**
Presenter	Presenter	Panelist	Panelist	Panelist

WEBINAR | Creating Socio-Environmental Scenarios

Our Socio-Environmental Systems Modeling Webinar Series Continues on October 20, 2021

Co-hosted by SESYNC, The Integrated Assessment Society (TIAS), and the journal *Socio-Environmental Systems Modelling* (SESMO), this webinar series explores the development and application of models to investigate complex problems arising from interactions between human and natural systems.

NEXT SEMINAR: "Creating Environmental Scenarios"

WHEN:
Wed. 20 October 2021, 15:00-16:30 (EDT UTC -4)
Wed. 20 October 2021, 21:00 – 22:30 (CEST UTC +2)
Thurs. 21 October 2021, 05:00 - 06:30 (AEST UTC +10)

Based on the 2020 article **"Scenario processes for socio-environmental systems analysis of futures: A review of recent efforts and a salient research agenda for supporting decision making,"** this webcast explores the present status and futures of creating socio-environmental scenarios. The article grew out of a workshop at the International Congress of the Environmental Modelling & Software Society, where practitioners and researchers discussed the state of the art on the development and use of scenario analysis for exploring and understanding socio-environmental systems. The webcast will begin with a presentation by two of the paper's co-authors, Hannah Kosow and Vanessa Schweizer, briefly describing the life cycle of scenario development. Comments from each panelist will follow and then an open discussion. Viewers may post questions and comments. Learn more about **this webinar**.

Register here.

SEMINAR | Urban Gardens & Environmental Injustices

THE NATIONAL SOCIO-ENVIRONMENTAL SYNTHESIS CENTER

SEMINAR SERIES

OCTOBER 5, 2021 AT 1:00 P.M. ET

Dr. Melanie Malone, University of Washington Bothell

"Urban gardens and environmental injustices: Collaborating with communities to address risks to gardeners"

VIRTUAL SERIES

Join SESYNC for Our Next Virtual Seminar on October 5, 2021

Dr. Melanie Malone will present **"Urban Gardens and Environmental Injustices: Collaborating with Communities to Address Risks to Gardeners."**

Abstract: While acting as sources of food and income along with many other environmental benefits for communities that have been marginalized, urban community gardens also often contain contaminated soils (and sometimes plants). Risks to gardeners are not adequately addressed due to inadequate, unclear, and inconsistent guidelines for risk. **Continue reading**.

Talks are free and open to the public. Registration is required. **Register here**.

INTERVIEW | Talking Air Quality Impacts on Respiratory Health

Audio Interview: Measuring Air Quality to Improve Health Equity with Dr. Kelly Jones

By: Erin Duffy

Breath. It gives us life. From the moment we enter the world and throughout our days, we take in the air around us. But for some of us, taking each breath is not always easy. Asthma affects approximately one in eight individuals in the United States and has effects ranging from minor inconveniences to school absences for children to even loss of life. But, in order to ameliorate this problem, a better understanding of what causes asthma is needed. For instance, how does the neighborhood environment relate to hospitalizations due to respiratory illness for children? This is the question that former SESYNC postdoc and registered nurse, **Dr. Kelly Jones** aims to answer with her research.

Listen to the full interview here.

NEW PUBLICATIONS | SESYNC in the Journals

"Phylogenetic underpinning of groundwater use by trees." Published in ***Geophysical Research Letters*** by former SESYNC postdocs James Knighton and Evan Fricke with colleagues Jaivime Evaristo, Hugo Jan de Boer, and Martin Joseph Wassen.

"Mapping and quantifying land cover dynamics using dense remote sensing time series with the user-friendly pyNITA software." Published in ***Environmental Modelling & Software*** by Michael Alonzo, Jamon Van Den Hoek, Paulo J.Murillo-Sandoval, Cara E.Steger, and John Aloysius Zinda. This paper resulted from the Pursuit, Expanding Access to Data-intensive Remote Sensing Algorithms through Collaboration with the Socio-Environmental Science Research Community.

"A decision framework for estimating the cost of marine plastic pollution interventions." Published in ***Conservation Biology*** by Erin L. Murphy, Miranda Bernard, Gwenllian Iacona, Stephanie B. Borrelle, Megan Barnes, Alexis McGivern, Jorge Emmanuel, Leah R. Gerber. This paper resulted from the Pursuit, Mitigating oceanic plastic pollution: modeling inputs, interventions and future scenarios to direct mitigation strategies for achieving measurable improvements to marine ecosystems.

"A proposed framework for the development and qualitative evaluation of West Nile virus models and their application to local public health decision-making." Published in ***PLOS Neglected Tropical Diseases*** by Alexander C. Keyel, Morgan E. Gorris, Ilia Rochlin, Johnny A. Uelmen, Luis F. Chaves, Gabriel L. Hamer, Imelda K. Moise, Marta Shocket, A. Marm Kilpatrick, Nicholas B. DeFelice, Justin K. Davis, Eliza Little, Patrick Irwin, Andrew J. Tyre, Kelly Helm Smith, Chris L. Fredregill, Oliver Elison Timm, Karen M. Holcomb, Michael C. Wimberly, Matthew J. Ward, Christopher M. Barker, Charlotte G. Rhodes, Rebecca L. Smith. This paper resulted from the Workshop, Bringing West Nile Virus Forecasting Approaches Together to Better Serve Stakeholders in a Changing Environment.

"Quantitative assessment of agricultural sustainability reveals divergent priorities among nations." Published in ***One Earth*** by Xin Zhang, Guolin Yao, Srishti Vishwakarma, Carole Dalin, Adam M. Komarek, David R. Kanter, Kyle Frankel Davis, Kimberly Pfeifer, Jing Zhao, Tan Zou, Paolo D'Odorico, Christian Folberth, Fernando Galeana Rodriguez, Jessica Fanzo, Lorenzo Rosa, William Dennison, Mark Musumba, Amy Heyman, and Eric A. Davidson. This paper resulted from the Pursuit, Understanding dynamic environmental and socio-economic interactions in food systems to support decision-making towards a sustainable and resilient agriculture.

"Governing complexity: Integrating science, governance, and law to manage accelerating change in the globalized commons." Published in ***Proceedings of the National Academies of the United States of America*** by Barbara Cosens, J. B. Ruhl, Niko Soininen, Lance Gunderson, Antti Belinskij, Thorsten Blenckner, Alejandro E. Camacho, Brian C. Chaffin, Robin Kundis Craig, Holly Doremus, Robert Glicksman, Anna-Stiina Heiskanen, Rhett Larson, and Jukka Similä. This paper resulted from the Workshop, Adaptive governance for freshwater socio-ecological system resilience: Theory, practice and comparison between the US and Northern Europe.