

## Clinton J. Andrews

Professor

Associate Dean for Research

Director, Rutgers Center for Green Building



Clinton Andrews is a professor of urban planning, director of the Rutgers Center for Green Building, and associate dean for faculty at Rutgers University's Bloustein School. He was educated at Brown and MIT in engineering and planning, and worked previously in the private sector and at Princeton University. He teaches environmental planning and quantitative methods courses, and performs research on how people use the built environment. He publishes both scholarly and popular articles and his books include *Humble Analysis: The Practice of Joint fact-Finding*, *Regulating Regional Power Systems*, and *Industrial Ecology and Global Change*. He is co-editor of the *Journal of Planning Education and Research*. He is a member of the American Institute of Certified Planners and a licensed Professional Engineer. Andrews is a Fellow of AAAS, a winner of IEEE's 3rd Millennium Medal, a current distinguished

lecturer for and past president of the IEEE Society on Social Implications of Technology, and an avid experimenter with new methods for collecting field data in urban settings.

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## Dunbar P. Birnie, III

Professor, Department of Materials Science and Engineering

Corning/Saint-Gobain/Malcolm G. McLaren Chair



Prof. Birnie earned his BS ('81) and PhD ('86) from MIT. He is deeply involved in solar power and electric vehicle innovation at many levels. At the micro-scale, his group has investigated a wide variety of materials and thin films for advanced photovoltaic device designs. At the power-grid-scale, Prof. Birnie has aimed at expanding the utilization of solar power, both in buildings (through better array design logistics) and for the charging of batteries used for electric transportation (for plug-in hybrid and electric vehicles), which can provide resilient power during grid outages.

## Joseph Brodie

Director of Atmospheric Research, Center for Ocean Observing Leadership



Joseph Brodie is a meteorologist and physical oceanographer with a primary interest in the modeling of the complex coastal environment. His research focuses on using modeling tools to study climate change and working with these tools to further society's use of renewable energy technologies to reduce its climatic influence. Dr. Brodie uses a variety of observations (i.e. lidar, sodar, in situ meteorological buoys and masts) to study the dynamic coastal environment, with the goal of using these observations to improve regional modeling to advance offshore wind energy, along providing benefit to other coastal stakeholders. These improved models can also be used to study and improve the prediction of other

coastal and atmosphere/ocean processes, such as sea breezes and tropical storms. He has also recently become involved in research on using ocean observing technology to help protect marine wildlife during offshore wind construction and operations.

Dr. Brodie joined the Center for Ocean Observing Leadership in July 2017. Prior to this, he was a postdoctoral researcher with Prof. Cristina Archer and Prof. Sara Rauscher at the University of Delaware, using global climate models to study how incidents of high surface ozone pollution may change through mid-century in Delaware. Dr. Brodie holds a B.S. in Meteorology from Rutgers University, and a Ph.D. in Marine Studies with a concentration in Physical Ocean Science and Engineering from the University of Delaware.

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## Frank A. Felder

Research Professor, Edward J. Bloustein School of Planning and Public Policy

Director, Center for Energy, Economic & Environmental Policy

Director, Rutgers Energy Institute

Director, Public Informatics Program



Frank Felder is an expert in energy policy and electricity markets. His research and teaching interests include the reliability and economics of electricity markets, state energy policy, energy efficiency and renewable energy evaluation, and integrated energy modeling. He has been awarded numerous research grants by the National Science Foundation, the U.S. Department of Energy, the U.S. Department of the Interior, the New Jersey Board of Public Utilities, and the New Jersey Department of Environmental Protection.

Professor Felder has published in policy, engineering and economic journals including *Energy Policy*, *The Electricity Journal*, *IEEE Transactions on Power Systems*, *Electric Power Systems Research*, *Utilities Policy*, *Proceedings of the IEEE*, and *The Energy Journal*.

Professor Felder teaches undergraduate and graduate level courses in Energy Engineering, Economics and Policy; Energy Policy and Planning; and the Science, Technology and Policy of Climate Change. He has also taught short courses on electricity markets in Africa, Asia, Canada, Europe and the United States.

He holds doctoral and master degrees from MIT in Technology, Management and Policy and completed his undergraduate studies at Columbia College and the School of Engineering and Applied Sciences. Before joining the Bloustein School faculty, Professor Felder was an assistant professor of Management at the Manhattan College School of Business, an economic consultant, and a nuclear engineer in the U.S. Navy.

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## **Marjorie Kaplan**

Associate Director, Rutgers Climate Institute



Dr. Kaplan leads the Rutgers Climate Institute program office and manages the full portfolio of Rutgers Climate Institute activities in consultation with the Co-Directors. She also co-facilitates the New Jersey Climate Change Alliance. Dr. Kaplan's 30 year career has included more than 20 years in government and 10 years in the private sector. She was the first Director of the New Jersey Department of Environmental Protection's Office of Climate and Energy where she oversaw regulatory programs under the Global Warming Response Act, the Global Warming Solutions Fund Law and regional initiatives to address climate change within various sectors including the Regional Greenhouse Gas Initiative and the Transportation and Climate Initiative. Dr. Kaplan holds a B.S. in Natural Resources from Cornell University and a Masters and Doctorate of Public Health from Columbia University.

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## Robert Kopp

Professor

Director, Institute of Earth, Ocean & Atmospheric Sciences



Robert Kopp is a climate scientist who serves at Rutgers University as Director of the Rutgers Institute of Earth, Ocean & Atmospheric Sciences and as a professor in the Department of Earth & Planetary Sciences. He also co-directs Rutgers' transdisciplinary Coastal Climate Risk & Resilience (C2R2) initiative, a training program which brings graduate students in the natural sciences, social sciences, engineering, and urban planning together with coastal stakeholders to tackle the challenges that climate change poses to the world's coastlines. In addition, he is a director of the Climate Impact Lab, a multi-institutional collaboration of more than two dozen economists, data scientists, climate scientists, and policy experts, working to bring Big Data approaches to the assessment of the economic risks of climate change.

Professor Kopp's research focuses on understanding uncertainty in past and future climate change, with major emphases on sea-level change and on the interactions between physical climate change and the economy. He is a lead author of the Intergovernmental Panel on Climate Change's forthcoming (2021) Sixth Assessment Report and the U.S. Global Change Research Program's 2017 Fourth National Climate Assessment, and has served on sea-level rise expert groups for the states of New Jersey, Maryland and California and the cities of Boston and New York.

Professor Kopp is currently serving at Rutgers as co-chair of the President's Task Force on Carbon Neutrality and Climate Resilience. The Task Force is developing a comprehensive Climate Action Plan for Rutgers that will identify pathways to achieving carbon neutrality, ways to reduce the university's vulnerability to climate impacts, and approaches to leveraging the State University of New Jersey to catalyze climate action throughout New Jersey.

Prior to joining the Rutgers faculty, Dr. Kopp served as an AAAS Science & Technology Policy Fellow in the U.S. Department of Energy's Office of Policy and International Affairs and as a Science, Technology, and Environmental Policy postdoctoral research fellow at Princeton University. He received his Ph.D. in geobiology from Caltech, and his undergraduate degree in geophysical sciences from the University of Chicago.

Professor Kopp is a Rutgers-New Brunswick Chancellor's Scholar, a fellow of the American Geophysical Union, and a past Leopold Leadership Fellow. He is a recipient of the American Geophysical Union's James B. Macelwane and William Gilbert Medals and the International Union for Quaternary Research (INQUA)'s Sir Nicholas Shackleton Medal.

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Shawn M. LaTourette, Esq.  
Chief of Staff  
New Jersey Department of Environmental Protection



Shawn M. LaTourette is an environmental lawyer, policymaker and executive serving as Chief of Staff of the [New Jersey Department of Environmental Protection \(DEP\)](#), where he crafts policy and leads the senior management team supporting [Commissioner Catherine R. McCabe](#), a member of the Cabinet of Governor Phil Murphy. As DEP's principal liaison to the Office of the Governor and chief policy advisor to the Commissioner, Shawn is responsible for driving the agency's affirmative agenda, including modernizing the state's environmental regulations in response to climate change, promoting the responsible development of offshore wind and renewable energy resources, encouraging brownfields redevelopment, protecting water resources, recovering damages for natural resource injuries, and furthering the promise of environmental justice. As the leader of [DEP's Senior Staff](#), Shawn also provides policy advice and direction to each of the DEP programs responsible for protecting New Jersey's air, land, water, and natural and historic resources, overseeing a staff of ~2,800 environmental professionals and an operational/grant-making budget of ~\$1 billion.

Previously, Shawn was Deputy Commissioner for Legal & Regulatory Affairs at DEP, serving as the chief counsel to Commissioner McCabe on all legal and regulatory policy issues. With support from an incredible staff of talented attorneys, engineers, and administrators, Shawn was responsible for oversight of defensive matters involving DEP and managed the agency's affirmative litigation program, including the revival of DEP's efforts to recover natural resource damages (NRDs) and address environmental justice concerns. Shawn also managed DEP's Office of Legal Affairs (which administers DEP's regulations and handles transactional legal matters), as well as the Office of Dispute Resolution (which assists DEP's programs and their stakeholders to resolve disputes).

An environmental lawyer prior to entering public service, Shawn was most recently a Director of the Environmental Law Department at Gibbons P.C, an AmLaw 200 firm with reach throughout the Mid-Atlantic region. With a focus on serving clients in the infrastructure, energy, chemicals, and real estate industries, Shawn counseled clients through the responsible development of critical projects and litigated high-stakes environmental cases in both state and federal courts in New Jersey and New York. He became an attorney after a decade in management, paralegal, and community organizing roles focused on environmental issues, including helping victims of toxic exposure and communities impacted by contaminated drinking water. He is a double-graduate of Rutgers University, having earned his B.A. from Rutgers-New Brunswick and his J.D. from Rutgers-Camden.

## Christine Morales

Assistant Director of Recruitment and Admission, School of Social Work

Instructor



Christine Morales serves as the Assistant Director of Recruitment and Admissions for the School of Social Work. She facilitates the daily operations of admission for all the MSW programs available at Rutgers. Christine teaches Diversity and Oppression and Social Work practice II. Additionally, Christine is the co-creator of the first environmental justice course at the School of Social Work. She has facilitated workshops on environmental justice. She, also, serves on the Council of Social Work Education's national task force to develop a curriculum guide on teaching environmental justice.

Christine has extensive experience working in a New Jersey based nongovernmental organization. She provided direct services to children and families involved with the foster care system. Christine supervised several programs contracted by the state to serve children in medical need, resource parents, adolescents in out-of-home care and organizational employees.

Christine earned her MSW at the University of Southern California. In California, Christine worked in communities including Skid Row, Central Los Angeles and Long Beach. Currently, she is doctoral student at Rutgers Graduate School of Education. Her work focuses on examining the intersection of social work education and environmental justice.

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## Rachael Shwom

Associate Professor, Department of Human Ecology

Associate Director, Rutgers Energy Institute



Rachael Shwom is an associate professor in the School of Environmental and Biological Science's Department of Human Ecology and Associate Director of the Rutgers Energy Institute. She conducts research that links sociology, psychology, engineering, economics, and public policy to investigate how social and political factors influence society's responses to energy and climate problems. Rachael is currently a Co-PI on a multi-university, \$1.5 million National Science Foundation grant on "Reducing Household Food, Energy and Water Consumption: A Quantitative Analysis of Interventions and Impacts of Conservation." She is Chair-Elect for the American Sociological

Association's Environmental Sociology Section and contributing author for IPCC AR6 WGII (Chapter 17, Decision-Making, Organizational aspects of decision-making). Prior to coming to Rutgers, Rachael was a Christine Mirzayan Science Technology and Policy Fellow at the National Academies of Sciences and a Michigan State University Environmental Science and Policy Fellowship recipient (Ph.D., Sociology 2009). From 2001-2004, Rachael worked in the utility demand side management sector.

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