

Faculty Conducting Sustainability Related Research (completed Dec. 2015)

| Name | School | Dept | Research area | Example scholarly work |
|---------------------|--------|------|---|--|
| Andrew David | A&S | Bio | parasite/pathogen reaction to climate change | http://www.clarkson.edu/news/2015/news-release_2015-11-06-2.html ; David A.A., Simon C.A. (2014) The effect of temperature on larval development of two non-indigenous poecilogonous polychaetes (Annelida: Spionidae) with implications for life history, establishment and range expansion. <i>Journal of Experimental Marine Biology and Ecology</i> 461: 20-30. |
| Michael R. Twiss | A&S | Bio | biogeochemical processes in Great Lakes and Rivers | http://www.clarkson.edu/ise/great_rivers1/index.html ; http://www.clarkson.edu/news/2014/news-release_2014-03-26-1.html ; Beall, B.F.N., Twiss, M.R., Smith, D.E, Oyserman, B., Rozmarynowycz, M.J., Binding, C., Bourbonniere, R.A., Bullerjahn, G.S., Palmer, M., Reavie, E.D., Waters, M.K., Woityra, W.C., McKay, R.M.L. 2015. Ice cover extent drives phytoplankton- and bacterial community structure in a large north temperate lake: Implications for a warming climate. <i>Environmental Microbiology</i> , DOI: 10.1111/1462-2920.12819 |
| Shantanu Sur | A&S | Bio | nanomaterials impacts on cells | Christina J. Newcomb, Shantanu Sur, Julia H. Ortony, One-Sun Lee, John B. Matson, Job Boekhoven, Jeong Min Yu, George C. Schatz, Samuel I. Stupp (2014): "Cell death versus cell survival instructed by supramolecular cohesion of nanostructures", <i>Nature Communications</i> , Volume 5, 3321. |
| Tom A. Langen | A&S | Bio | Behavioral Ecology, Conservation Biology, Wildlife habitat and human development | http://www.clarkson.edu/news/2015/news-release_2015-10-02-1.html ; Langen T.A., K. Gunson, C. Scheiner, and J. Boulterice. 2012. Road mortality in freshwater turtles: identifying causes of spatial patterns to optimize road planning and mitigation. <i>Biodiversity and Conservation</i> 21:3017-3034. |
| Evgeny Katz | A&S | CBS | Biofuel Cells, Bioelectronics & Bionanotechnology | A. Szczupak, J. Halámek, L. Halámková, V. Bocharova, L. Alfonta, E. Katz, Living battery – Biofuel cells operating in vivo in clams. <i>Energy & Environmental Science</i> 2012, 5, 8891-8895. |
| Mario Wriedt | A&S | CBS | Hydrogen fuel storage systems | Unprecedented activation and CO2 capture properties of an elastic single-molecule trap, Mario Wriedt, Julian P. Sculley, Wolfgang M. Verdegaal, Andrey A. Yakovenko & Hon-Cai Zhou, <i>Chemical Communications</i> , 2013, in press, DOI: 10.1039/C3CC45866K |
| Silvana Andreescu | A&S | CBS | analytical and bioanalytical chemistry, environmental chemistry, sustainable nanotechnology | D. Andreescu, G. Bulbul, E. R. Ozel, A. Hayat, N.P. Sardesai, S. Andreescu, Applications and Implications of Nanoceria Reactivity: Measurement Tools and Environmental Impact, <i>Environ. Sci.: Nano</i> 1, 2014, 445-458. |
| Stephen Farina | A&S | Comm | Communications and Community Development | http://www.clarkson.edu/news/2014/news-release_2014-04-16-1.html - biograsphy of Franklin Benjamin Hough (1822-1885) of Lowville, N.Y., Hough's work was the essential foundation for towering achievements such as the creation of the Adirondack and Catskill Parks, as well as the preservation of the water resources that enabled the growth of New York City in the late 19th and early 20th centuries." |
| Jeanna N. Matthews | A&S | CS | Development of green data center | "Distributed (Green) Data Centers: A New Concept for Energy, Computing, and Telecommunications." Bird, Stephen, Ajit Achuthan, Othman Ait Maatallah, Wenjin Hu, Kerop Janoyan, Alexis Kwasinski, Jeanna Matthews, David Mayhew, Jay Owen, and Pier Marzocca. (2014). <i>Energy for Sustainable Development</i> 19 (April 2014). |
| Natasha Banerjee | A&S | CS | Software design, application to human-machine interfaces for environmental applications | Mobile app for citizen science - reporting river water levels. |
| Annegret D. Staiger | A&S | H&SS | race and ethnicity in the US | "From Research to Policy and Institutional Change: Assessing Anthropology's Effectiveness in Achieving Racial Equity in Education," at the American Anthropological Association, Chicago, November 18-23, 2003. |
| Christina V. Xydias | A&S | H&SS | Womens rights | The Conservative Woman: A Comparative Study of Germany and the United States. The book argues for placing the representational activities of female political elites in their broader political context in order to discern and understand conservative women's contributions to advancing women's rights and interests. |

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| Christopher C. Robinson | A&S | H&SS | Political ecology and sustainability | "The Iron Triangle: Why the Wildlife Society Needs to Take a Position on Economic Growth," co-authored with Brian Czech and nineteen signatories, <i>Wildlife Society Bulletin</i> 31.2 (Fall 2003), pp. 574-77. |
| Christopher K. Morris | A&S | H&SS | environmental anthropology, land rights activism | Struggle for Land Reform Goes Beyond Bantustan and National Boundaries; <i>The Anthropology of Globalization</i> (2010) |
| JoAnn L. Rogers | A&S | H&SS | Social Inequality, Gender, Masculinity | Rogers, J. and Litt, J.2004. "Normalizing Racism: A Case Study of Motherhood in White Supremacy". In Abby L. Ferber. <i>Home-grown hate: gender and organized racism</i> . New York: Routledge |
| Laura Ettinger | A&S | H&SS | history of women, gender, and the medical, scientific, and technological professions in the United States, state of American health care, women's health, and women in technology and science today. | A Very Cold Reception: Rouge Chapter of Alpha Kappa Psi Defies Convention to Admit Women (http://www.ultimatehistoryproject.com/untitled.html) |
| Stephen D. Bird | A&S | H&SS | energy and environmental politics and policy, social justice and activism, social networks, political behavior, and pedagogy | http://www.clarkson.edu/news/2014/news-release_2014-03-10-3.html , "Policy Options for the Split Incentive: Increasing Energy Efficiency for Low-Income Renters." Stephen Bird and Diana Hernández. <i>Energy Policy</i> 48, September, 506-514 (2012). |
| William Vitek | A&S | H&SS | Philosophical basis for sustainability, intersection of social practices and the environmental, cultural, and historical contexts in which they occur | "You Can Get There from Here – Sustainable Engineering: Precursors, Principles & Prospects," co-written with Ross Whaley, introductory essay to <i>Strategic Environmental Management for Engineers</i> , New York: Wiley & Sons, 2004. |
| Erik Bolt | A&S | Math | mathematical modeling applied to many types of systems, including ecosystem behavior, remote sensing for observing oceans | Sachit Butail, Philip Salerno, Erik M. Bolt, and Maurizio Porfiri, " Classification of collective behavior: a comparison of tracking and machine learning methods to study the effect of ambient light on fish shoaling, " <i>Behavior Research Methods</i> , 8 Oct, pp 1-12, 2014, |
| Joseph D. Skufca | A&S | Math | applied mathematical modeling with analytic and data methods. For example - modeling of phytoplankton population dynamics, smart grid modeling, development of green data center | Huddy, S., and J. Skufca. "Amplitude death solutions for stabilization of dc microgrids with instantaneous constant-power loads," <i>IEEE Transactions on Power Electronics</i> , Vol 28:1, 247-253, (2013). |
| Guangming Yao | A&S | Math | numerical simulation of air and water pollution, including groundwater | G. Yao, K. M Bliss, M. Crimi, K. R. Fowler, J. Clark-Stone, and W. Li, "Radial basis function simulation of slow-release permanganate for groundwater remediation via oxidation" in review. |
| Kathleen R. Fowler | A&S | Math | Numerical Methods, Mathematical Modeling of water resource systems | modeling of water resources in agricultural systems https://www.youtube.com/watch?v=hHl56HpesoU ; J. Bokhiria, K.R. Fowler, E.W. Jenkins, Modeling and Optimization for Crop Portfolio Management Under Limited Irrigation Strategies , <i>Journal of Agriculture and Environmental Sciences</i> , 2(1), 01-31, 2014. |
| Sumona Mondal | A&S | Math | Statistical methods applied to environmental problems | Choi, Hyun-Deok; Huang, Jiaoyan; Mondal, Sumona; et al., Variation in concentrations of three mercury (Hg) forms at a rural and a suburban site in New York State. <i>SCIENCE OF THE TOTAL ENVIRONMENT</i> 448(SI): 96-106, MAR 15 2013 http://people.clarkson.edu/~surop/PV%20test.htm |
| Dipankar Roy | A&S | Phy | Materials for energy storage and energy conversion devices: electrodes for alcohol fuel cells; efficient materials for photovoltaic cells | J. E. Garland, D. J. Crain, J. P. Zheng, C. M. Sulyma and D. Roy, "Electro-analytical characterization of photovoltaic cells by combining voltammetry and impedance spectroscopy: voltage dependent parameters of a silicon solar cell under controlled illumination and temperature", <i>Energy and Environmental Science</i> , 4 (2011) 485-498 |
| Lisa Legault | A&S | Psy | How the source of motivation underlying beliefs, attitudes, and behavior influences the successful self-regulation of those beliefs, attitudes, and behaviors. Applied to prejudice, energy conservation | Inzlicht, M., Gutsell, J.N, & Legault, L. (2012). Mimicry reduces racial prejudice. <i>Journal of Experimental Social Psychology</i> , 48, 361–365. |
| Richard Partch | CAMP | | application of organic chemistry to solving problems in materials processing, including conversion of organic wastes into synthetic fuels | Recycling "Paper Sludge" into Useful Carbon Products, presented at the Pulp & Paper Manufacturing Roundtable, Sponsored by NYSP21, CITEC and Clarkson University, Potsdam NY 2011. |

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|----------------------|-------|-----|---|---|
| Andrea R. Ferro | CSoE | CEE | indoor air quality, fate and transport of pollutants in the built environment, exposure versus health effect relationships for nanoparticles and allergens/asthmagens | Nazridoust, Kambiz, Goodarz Ahmadi, Chaosheng Liu, Andrea R. Ferro, Timothy R. McAuley, Peter A. Jaques, Philip K. Hopke. 2013. "Distribution of nanoparticles near a major U.S. and Canada trade bridge: comparison of simulations with field data." <i>Aerosol and Air Quality Research</i> , 13: 3-12, 2013. |
| Erik Backus | CSoE | CEE | Sustainable Construction, Energy/Alternative Energy Metrics/Management, Alternate Transportation Impacts/Planning | Backus, Erik (2011), "True Sustainability: A Rubric for Evaluating Infrastructure Rating Systems and Resiliency", The Infrastructure Security Partnership, http://adweb.clarkson.edu/~ebackus/TISP.pdf , November 20, 2011 |
| Hayley H. Shen | CSoE | CEE | Ocean Wave and Sea Ice Interactions, Formation of Pancake Ice | Wang, R. and Shen, H.H. (2010) Experimental study on surface wave propagating through a grease-pancake ice mixture. <i>Cold Regions Science and Technology</i> , doi:10.1016/j.coldregions.2010.01.011. |
| Hung Tao Shen | CSoE | CEE | river ice modeling; ice processes in Great Lakes Connecting Channels | Knack, I.M., and Shen, H.T., 2012. "River Ice Modeling for Fish Habitat Analysis," Proceedings, 21th IAHR Ice Symposium, Dalian, 202-211. |
| Ian Knack | CSoE | CEE | River ice processes including: sediment transport in rivers subject to freezing, river ice breakup dynamics, interaction of suspended sediment and frazil ice, effect of surface ice on channel stability, and fish habitat and ecology | I.M. Knack and H.T. Shen, 2015 "A Numerical Model Study on Ice Impact on Lake Superior Outflow Limit," <i>Canadian Journal of Civil Engineering</i> , 42:1-9, DOI: 10.1139/cjce-2014-0276. |
| James Edzwald | CSOIE | CEE | design and operation of water plants | Edzwald, J.K., Coagulation and mixing: history and present versus sustainable practice, <i>JNEWWA</i> , Vol. CXXVIII (4), pp. 301-313, (2014). |
| James S. Bonner | CSoE | CEE | Coastal Processes / Observations, Real time measurement and analysis of riverine pollutants | Islam, M.S., Bonner, J., Page, C., Ojo, T. (2011). An Integrated Real Time Monitoring System to Investigate the Hypoxia in a Shallow Wind-Driven Bay, <i>Journal of Environmental Monitoring and Assessment</i> , v.172 (1), p. 33-50. |
| John P. Dempsey | CSoE | CEE | Effects of scale on the strength and fracture properties of structural materials, including Antarctic ice sheets | Dempsey, J.P., Y. Xie, R.M. Adamson, D.M. Farmer, Fracture of a ridged multi-year Arctic sea ice floe. <i>Cold Regions Science and Technology</i> 76-77 (2012) 63-68 |
| Kerop D. Janoyan - , | CSoE | CEE | Sustainable buildings and infrastructure, renewable energy, Sensors and controls, development of green data center | http://www.clarkson.edu/news/2015/news-release_2015-10-01-3.html ; Whelan, Matthew J.; Fuchs, Michael P.; Janoyan, Kerop D., Large scale remote sensing for environmental monitoring of infrastructure, <i>JOURNAL OF ENVIRONMENTAL MONITORING</i> 10(7): 812-816, 2008 |
| Narutoshi Nakata | CSoE | CEE | resilience - improve structural engineering for coastal water disasters | http://www.clarkson.edu/news/2015/news-release_2015-06-12-1.html |
| Poojitha Yapa | CSoE | CEE | Oil spill modeling | http://www.clarkson.edu/news/2015/news-release_2015-05-19-1.html ; Wimalaratne, M. R., Yapa P. D., Nakata, K., and Premathilake, L. T. (2015). "Transport of dissolved gas and its ecological impact after a gas release from deepwater, <i>Marine Pollution Bulletin</i> , Elsevier (accepted for publication – e-version is on line) |
| Shane Rogers | CSoE | CEE | fate, transport, and vectoring of microbial and chemical stressors in the environment, including risks associated with exposure to microbial agents in air, water, soils, and produce grown for human consumption | Jahne, M. A., Rogers, S. W., Holsen, T. M., and Grimberg, S. J., Ramler, Ivan 2015. Emission and Dispersion of Bioaerosols from Dairy Manure Application Sites: Human Health Risk Assessment, <i>Environmental Science & Technology</i> , accepted DOI: 10.1021/acs.est.5b01981 |
| Stefan J. Grimberg | CSoE | CEE | Biofuels, waste for energy recovery (digestion) | http://www.clarkson.edu/news/2014/news-release_2014-04-11-1.html ; Grimberg, S.J; D. Hilderbrandt; M. Kinnunen, S. Rogers (2014) Anaerobic Digestion of Food Waste Through the Operation of a Mesophilic Two-Phase Pilot Scale Digester – Assessment of Variable Loadings on System Performance. <i>J. Bioresource Technol.</i> |
| Sulapha Peethamparan | CSoE | CEE | development, characterization, performance evaluation, and modeling of cement-based materials, primarily focusing on developing sustainable infrastructural materials | http://www.clarkson.edu/engineering/profiles/green_concrete.html ; Siriwardena, Dinusha P.; Peethamparan, Sulapha, Quantification of CO2 sequestration capacity and carbonation rate of alkaline industrial byproducts, <i>CONSTRUCTION AND BUILDING MATERIALS</i> 91: 216-224,AUG 30 2015 |
| Thomas M. Holsen | CSoE | CEE | determining the sources, movement, transformations and fate of environmental pollutants including emerging contaminants of concern in a wide array of environmental systems including the Adirondacks and the Great Lakes. | http://www.clarkson.edu/news/2015/news-release_2015-08-12-1.html ; Omara, M., Crimmins, B.S., Back, B.C., Hopke, P.K., Chang, F.C., Holsen, T.M., Mercury Biomagnification and Contemporary Food Web Dynamics in Lakes Superior and Huron (2015) <i>J Great Lakes Research</i> 41 473-483. |

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| Tyler J. Smith | CSoE | CEE | Integrative watershed studies (hydrology, water quality, etc.) driven by quantitative analysis | Smith, T., L. Marshall, B. McGlynn, and K. Jencso (2013). Using field data to inform and evaluate a new model of catchment hydrologic connectivity, <i>Water Resources Research</i> , 49, 6834-6846. |
| Weiming Wu | CSoE | CEE | sediment transport; water quality and aquatic ecosystem/ecotoxicology modeling | http://www.clarkson.edu/news/2015/news-release_2015-06-12-1.html R. Marsooli and W. Wu (2015). "Three-dimensional finite-volume model of dam-break flows with sediment transport over movable beds." <i>Journal of Hydraulic Engineering, ASCE</i> , 141(1), 04014066, 1–12. http://www.clarkson.edu/news/2015/news-release_2015-02-09-1.html ; High-density sodium and lithium ion battery anodes from banana peels |
| David Mitlin | CSoE | ChBE | renewables and conventional energy topics, focusing on the creation of new materials for sodium ion batteries and lithium ion batteries, and electrochemical capacitors for aggressive oil refining environments | EM Lotfabad, J Ding, K Cui, A Kohandehghan, P Kalisvaart, M Hazelton and D Mitlin <i>ACS Nano</i> , 8 (2014) 7115-7129, doi:10.1021/nn502045y |
| Eunsu Paek | CSoE | ChBE | First-principles based multiscale modeling of nanomaterials for energy and environmental applications | E. Paek, A. J. Pak, K. E. Kweon, and G. S. Hwang, "On the Origin of the Enhanced Supercapacitor Performance of Nitrogen-doped Graphene," <i>J. Phys. Chem. C</i> 117(11), 5610-5616 (2013). |
| John B. McLaughlin | CSoE | ChBE | polymers, fluid mechanics, and reaction engineering, example - Modeling of air filters for low pressure environments. | Modeling of air filters for low pressure environments. Project is supported by Pall Corporation |
| Ruth E. Baltus | CSoE | ChBE | Ionic Liquids (for carbon sequestration), Membranes, Sensors | Hou, Y. and Baltus, R.E., "Experimental Measurement of Solubility and Diffusivity of CO ₂ in Room Temperature Ionic Liquids," <i>Ind.Eng.Chem Research</i> , 46, 8166-8175 (2007). |
| Selma Mededovic | CSoE | ChBE | plasma oxidation for energy efficient water treatment, biofuel production | http://www.clarkson.edu/news/2014/news-release_2014-03-27-1.html ; Gunnar Stratton, Christopher Bellona, Fei Dai, Thomas Holsen, and Selma Mededovic Thagard, "Plasma-based Water Treatment: Conception and Application of a General Principle for Reactor Design", <i>Chemical Engineering Journal</i> , 273, pp. 543-550, 2015 |
| Shunsuke Nakao | CSoE | ChBE | chemistry and physics of aerosol and clouds in the atmosphere with the goal of mitigating air pollution and climate change | Jayarathne, T., Stockwell, C., Yokelson, B., Nakao, S., and Stone, E. A. (2014) Emissions of fine particle fluoride from biomass burning, <i>Environmental Science & Technology</i> , 48, 12636-12644. [DOI] |
| Sitaraman Krishnan | CSoE | ChBE | molecular-scale engineering of surfaces and thin films using polymers - applied to organic solar cells, high temperature proton exchange membrane fuel cells, and lithium ion batteries | S. Rock, W. Lin, D. Crain, S. Krishnan, and D. Roy, Interfacial Characteristics of a PEGylated Imidazolium Bistriflamide Ionic Liquid Electrolyte at a Lithium Ion Battery Cathode of LiMn ₂ O ₄ , <i>ACS Appl. Mater. Interfaces</i> , 5, 2075-2084, (2013). |
| Zijie Yan | CSoE | ChBE | integrated approach of nanomaterial synthesis, property characterization, and electrostatics simulation that will ultimately culminate in novel applications in energy, environment, healthcare, and many other areas | W.P. Chen, K.F. He, Y. Wang, H.L.W. Chan, and Z.J. Yan, "Highly mobile and reactive state of hydrogen in metal oxide semiconductors at room temperature", <i>Scientific Reports</i> , 3, 3149 (2013). |
| Burak Kantarci | CSoE | ECE | cloud computing, green communications, social networks, big data in the network, smart grid | B. Kantarci, H. T. Mouftah, "Inter-Data Center Network Dimensioning under Time-of-Use Pricing," in <i>IEEE Transactions on Cloud Computing</i> , doi: 10.1109/TCC.2014.2371037; 2016 |
| Daqing Hou | CSoE | ECE | software development environments and tools, including applications for greenhouse and digester and smart housing projects. | Powers, S. E., & DeWaters, J., & Grimberg, S. J., & Hou, D., & Small, M. M. M. (2015, June), CLICS – Integrating Data from Campus Sustainability Projects Across Disciplines Paper presented at 2015 ASEE Annual Conference and Exposition, Seattle, Washington. 10.18260/p.23690 |
| Jei Li | CSoE | ECE | Alternate Energy Systems, Power System Reliability and Planning, Deregulated Power Systems | Working on regional/local microgrid project with GE, National Grid, NSF |
| Lei Wu | CSoE | ECE | stochastic modeling and optimization of large-scale power systems, cyber physical systems, high penetration renewable energy applications, demand response, and power system reliability and economics | Lei Wu and Mohammad Shahidehpour, "A Hybrid Model for Day-Ahead Price Forecasting," <i>IEEE Transactions on Power Systems</i> , Vol. 25, No. 3, pp. 1519-1530, Aug. 2010. |

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| Melike Erol Kantarci | CSoE | ECE | smart grid and electric vehicle communications | http://www.clarkson.edu/news/2015/news-release_2015-07-29-1.html ; Melike Erol-Kantarci, H. T. Mouftah, "Energy-Efficient Information and Communication Infrastructures in the Smart Grid: A Survey on Interactions and Open Issues," IEEE Communications Surveys and Tutorials, vol. 17, no. 1, 2015.; Melike Erol-Kantarci, H. T. Mouftah, "SuReSense: Sustainable Wireless Rechargeable Sensor Networks for the Smart Grid," IEEE Wireless Communications, vol.19, no. 3, pp. 30-36, June 2012. |
| Paul McGrath | CSoE | ECE | Smart Grid development | Ortmeyer, T., Reeves, J.A., Hou, D, McGrath, P. (2010) Evaluation of Sustained and Momentary Interruption Impacts in Reliability-Based Distribution System Design, IEEE TRANSACTIONS ON POWER DELIVERY, 25(4), OCTOBER 2010 |
| Stephanie A. Schuckers | CSoE | ECE | processing and interpretation of signals which arise from the human body | LeBouf, Ryan F.; Schuckers, Stephanie A.; Rossner, Alan, Preliminary assessment of a model to predict mold contamination based on microbial volatile organic compound profiles SCIENCE OF THE TOTAL ENVIRONMENT Volume: 408 Issue: 17 Pages: 3648-3653 Published: AUG 1 2010 |
| Thomas H. Ortmeyer | CSoE | ECE | Power engineering, microgrids, Alternate Energy, Electric Transportation, smart grid | http://www.clarkson.edu/news/2015/news-release_2015-09-14-1.html ; T. Ortmeyer. "A Unified Index for Power Distribution Reliability/Power Quality Indices." 2010 IEEE International Conference on Harmonics and Quality of Power, September, 2010, Bergamo, IT. Paper 938. |
| Ajit Achuthan | CSoE | MAE | solid mechanics and advanced materials. Currently, he is focusing on acoustic meta-materials, surface nanocrystallization of metals, and health monitoring of wind turbines, development of green data center | "Distributed (Green) Data Centers: A New Concept for Energy, Computing, and Telecommunications." Bird, Stephen, Ajit Achuthan, Othman Ait Maatallah, Wenjin Hu, Kerop Janoyan, Alexis Kwasinski, Jeanna Matthews, David Mayhew, Jay Owen, and Pier Marzocca. (2014). Energy for Sustainable Development 19 (April 2014). |
| Brian Helenbrook | CSoE | MAE | Numerical Simulation Techniques for Fluid-Flows in natural and engineered systems, current projects are designing a novel wind turbine, manufacturing of solar cell wafers | M. A. Karri, B. T. Helenbrook, and E. F. Thacher. Exhaust energy conversion by thermo- electric generation: Two case studies. Energy Conversion and Management, 52(3):1596 – 1611, 2011. |
| Daryush K. Aidun | CSoE | MAE | Reliability & life assessment of engineering components/systems | M. Izadi, D. Aidun, P. Marzocca and H. Lee, "Integrated Experimental Investigation of Seawater Composite Fouling Effects on the 90/10 CU/Ni Tube," Applied Thermal Engr., ATE Vol. 31 No. 14-15, pp. 2464-2473 (2011). |
| Douglas G. Bohl | CSoE | MAE | Diagnostic Techniques for Measurement of Fluid Flows, use of biomimicry for design | B. Tavakoli, G. Ahmadi, D.G. Bohl and J. Kehs, "Computational Modeling of Airflow and Particulate Pollutant Transport Around the Syracuse COE Building", Proceedings of FEDSM2009, ASME 2009 Fluids Engineering Division Summer Meeting, Vail, CO August 2-5, 2009. |
| Goodarz Ahmadi | CSoE | MAE | Fluid mechanics applications for Air Pollution, PM Transport and deposition, including into human lungs and health impacts, geological CO2 sequestration | http://www.clarkson.edu/news/2015/news-release_2015-06-18-1.html ; Crandall, D., Ahmadi, G., and Smith, D.H., Computational Modeling of Fluid Flow through a Fracture in Permeable Rock," Transport in Porous Media, Vol. 85, pp. 493-510 (2010). |
| Kenneth D. Visser | CSoE | MAE | Aerodynamics, Sustainable Energy, Wind turbine technology development and implementation | Kehs, J., Visser, K., Grossmann, J., Horrell, C., and Smith, A., "Experimental and Full Scale Investigation of Base Cavity Drag Reduction Devices for Use on Ground Transport Vehicles" The Aerodynamics of Heavy Vehicles III: Trucks, Buses, and Trains, Lecture Notes in Applied and Computational Mechanics , Vol. 79, Dillmann, Andreas; Orellano, Alexander; (Eds.), 2016, Hardcover, ISBN: 978-3-319-20121-4 |
| Marcias Martinez | CSoE | MAE | structural health monitoring and smart structures, assess the reliability and structural integrity of mechanical and aerospace structures and whenever possible assist in extending their life | http://www.clarkson.edu/news/2015/news-release_2015-09-30-1.html ; A. Cooperman, M. Martinez, "Load Monitoring for Active Control of Wind Turbines – A Review Article", Published in the Journal of Renewable & Sustainable Energy Reviews, doi: 10.1016/j.rser.2014.08.029, August 2014. ; Developing "House in a Box" sustainable housing solution for people in disaster zones. |
| Suresh Dhaniyala | CSoE | MAE | Measuring atmospheric constituents that contribute to climate change, climate literacy and education | http://www.clarkson.edu/news/2015/news-release_2015-11-05-1.html ; Meilu He and Suresh Dhaniyala, Vertical and Horizontal Concentration Distributions of Ultrafine Particles near a Highway, Atmospheric Environment, 46, 225-236, 2012. |
| JanDeWaters | CSoE | | Energy and climate literacy and education | DeWaters, J.E., S.E. Powers, B. Qaqish, and M.E. Graham. "Designing an Energy Literacy Questionnaire for Middle and High School Youth." J. Environmental Education, 44(1): 56-78, 2013. |

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| Amy K. Zander | CUSB | E&M | Water Quality Sustainability | AWWA Membrane Technology Research Committee, (A.K. Zander, member), "Recent Advances and Research Needs in Membrane Fouling," <i>Journal of the American Water Works Association</i> , Vol. 97, No. 8, pp. 79-89, 2005. |
| Cecilia Martinez | CUSB | E&M | Lean for sustainability and healthcare, Project Management for Complex Products and Systems | http://www.clarkson.edu/news/2015/news-release_2015-09-14-1.html ; Martinez Leon, Cecilia, Calvo-Amodio Javier, "Lean for Sustainability: A Literature Review from a Systems Thinking Perspective", submitted to <i>Journal of Cleaner Production</i> (June 2015, under review) |
| Allan Zebedee | CUSB | | corporate finance issues | Bansak, Cynthia; Graham, Mary E.; Zebedee, Allan A., <i>Business Cycles and Gender Diversification: An Analysis of Establishment-Level Gender Dissimilarity</i> , <i>AMERICAN ECONOMIC REVIEW</i> 102(3): 561-565, 2012 |
| Amir Mousavian | CUSB | | power systems optimization and cyber-security for smart grids | Seyedamirabbas Mousaviana, Jorge Valenzuelaa, Jianhui Wang, Real-time data reassurance in electrical power systems based on artificial neural networks, <i>Electric Power Systems Research</i> , 96: 285-295, 2013 |
| Augustine A. Lado | CUSB | | Strategic & International Management, including microfinance for sustainable development | https://www.clarkson.edu/profiles/augustine_lado.html |
| Bebonchu Atems | CUSB | | Income inequality | Atems, Bebonchu. "The Spatial Dynamics of Growth and Inequality: Evidence Using U.S. County-Level Data", <i>Economics Letters</i> , 2012. |
| Farzad Mahmoodi | CUSB | | systems modeling and simulation, and quality management | Graves, S., Graham, M., and Mahmoodi, F., "The Important Role of Change Management in Environmental Management System Implementation," <i>International Journal of Operations & Production Management</i> , vol. 31, no. 6, 2011, 631-647. |
| Luciana Echazu | CUSB | | Industrial Organization, Game Theory, International Trade, Corruptio | Echazu, L., Nocetti, D., & Smith, W. 2012. "A New Look into the Determinants of the Ecological Discount Rate: Disentangling Social Preferences". <i>The B.E. Journal of Economic Analysis & Policy</i> . Vol.12 Iss.1 (Advances). Article 15. |
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