

ISAER Newsletter

For the members of the International Society for the Advancement of Emergy Research



10th Biennial Emergy Conference

This year, from the 25th to 27th January, the 10th Biennial Emergy Conference took place in Gainesville, Florida. We are grateful to Mark Brown, Sharlynn Sweeney and the staff at UF for organizing this special event that, for the tenth time, reunited some of the world's leading experts in emergy. As in previous editions, participants came from around the globe and research presentations were informative and insightful. Many themes were tackled: water, industrial and agricultural systems, food, waste management, built environment, ecosystem services, as well social and environmental issues. Advancements in emergy methodology were illustrated, such as the



Within the "Second Report of the Natural State in Italy" drawn up by the Ministry of the Environment (MATTM), the results of emergy evaluation of the natural capital of marine ecosystems are reported.
<https://bit.ly/2FoQTFO>



The project "The sun in the dish" has just been launched! It aims at evaluating variegated agrifood products of 24 farms in the Province of Siena (Italy) and testing innovative ways to communicate the emergy values to citizens.



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refinement of the Global Baseline and UEVs of natural processes. Interesting works regarding the connections between energy and other methods and initiatives, such as LCA and other indicator frameworks, the Circular Economy and the Sustainable Development Goals (SDGs) were also presented. ISAER awarded 10 travel awards to students for participating in the Conference. Looking forward to reuniting at the 11th edition!

Poster Session

The poster session for the 10th Biennial Energy Conference was held on January 26th at Ustler Hall at the University of Florida. Many young researchers were congratulated for the accuracy and beauty of their works. A jury composed of a panel of professors and experts evaluated the various posters that were presented. The accuracy of data, elaboration, presentation of the works, as well as graphical solutions, topics, innovative aspects of the works were evaluated. Among 25 posters, 9 researchers were awarded during the final meeting of the Conference. ISAER provided \$300 for the “podium” and some gadgets for the other winners. The winner was Mariana Oliveira from the University of Campinas (Brazil), presenting a work on “Energy analysis of agricultural systems in a water basin to know their influence on water infiltration”.



OUR FAVORITE QUOTE

“I wanted everyone to see that the human individual, the university and the environment are each hierarchical organizations operating with many scales. To green the university means to make better symbiotic couplings between these systems. There are opportunities for new initiatives on each scale [...]. Emergy Evaluation is available where choices require quantitative perspective.”

Web presentation. 1999. For "Greening UF" Conference.

Rinker School of Building Construction.

Environmental Policy for the University of Florida. 28/Oct./1999



Breaking news

1. We had a donation of \$200 from a prominent member to start a fund to support student travel.
2. The Officers of the ISAER Executive Council authorized \$50 to cover a grant writing class for Dan Campbell and Randy Anway on how to get funding for non-profits in the Trump era.
3. The Emergy Society has 5 new members, who have joined since the 11th Annual Meeting of ISAER. We now have 306 members!
4. Since the beginning of the year 56 papers have been published (source: SCOPUS, searching for "emergy" in title, abstract and keywords).

Highlights for the future

NEAD is online!



The National Environmental Accounting Database (NEAD) is a tool that compiles detailed information for over 200 countries/regions for the full array of resources that underlie economies, including environmental flows (sunlight, rainfall), natural capital stocks (soil, water, forests, fish), mined materials (metals, fuels) and economically transformed goods and services (agricultural commodities, manufactured goods, services). Data for commodities and trade flows are from 2000-2014, and long-term average data are used for climate and hydrology flows.

manufactured goods, services). Data for commodities and trade flows are from 2000-2014. You can find NEAD at: <https://www.emergy-nead.com/home>.

Venice: 3rd International School on Emergy Accounting

The 3rd International School on Emergy Accounting is ready to start in Venice, Italy, next May on the 21st. This year, the group of teachers includes, besides Mark Brown, Sergio Ulgiati and Francesco Gonella, also Gengyuan Liu from the Beijing Normal and Amalia Zucaro from Parthenope University. The School is designed for PhD students, Post-docs or junior researchers who have some experience with Systems analysis or Emergy studies.



Photos from the 2nd International School on Emergy Accounting.