

**Candidate**  
**Executive Council of the International Society for the Advancement of Emergy Research**

**Term Length: 4 years**

**Name SIMONE BASTIANONI**

Affiliation: Ecodynamics Group – Department of Earth, Environmental and Physical Sciences – University of Siena – Italy  
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**Education and Expertise:**

*1990:* MS degree in Electronical Engineering at the University of Padua.

*1993-94:* Visiting scholar at the University of Florida (Department of Environmental Engineering, with H.T. Odum).

*1995:* Ph.D. in Chemical Sciences at the Universities of Siena and Perugia.

*1999:* Visiting scholar at the Royal Danish School of Pharmacy (with S.E. Jørgensen).

Currently:

- Full Professor of Environmental and Cultural Heritage Chemistry, University of Siena.
- Chair of the Environmental Sciences BS and MS programs.
- Associate Editor of the journal "Frontiers in Energy Systems and Policy".
- Member of the Editorial Boards of Ecological Modelling, Ecological Indicators.
- Member of ISAER from its start (Founder).

**Research and Teaching**

Sustainability indicators (e.g. based on Emergy evaluation, Ecological Footprint, Greenhouse Gases Balance, Life Cycle Assessment, Exergy analysis, etc.); Energy and bio-energy systems; application of thermodynamics and of kinetic models to ecological and environmental systems.

Current courses taught: Sustainability; Ecodynamics; LCA and Environmental Certification

**Vision Statement for the Emergy Society (ISAER)**

I am honoured to be a candidate for the new ISAER Executive Council. I would like to see emergy adopted as an orientor of policy for countries and enterprises and we can reach this goal by strengthening the scientific basis of emergy and our ability to communicate its relevance.

The members of the Council that have served up to now have done a huge work in opening the path for our Society. I support the Mission Statement of ISAER and I believe we have to start from there. Two other pillars have been created in the last years and must be maintained and cultivated: the **Emergy Society Database** for Transformativities (ESD) and the **National Environmental Accounting Database** (NEAD). I believe that these databases play a key role in enhancing our credibility for the non-emergy practitioners. For this reason, I would like ISAER to take the responsibility of maintaining and improving the ESD and of supporting the University of Florida in updating NEAD. The ESD should be continuously updated; NEAD can be revised every 2-4 years. I think that ISAER should look for funds to support these activities.

We need to increase the efforts towards a larger acceptance of the emergy concept and view. We have to act in different directions: students of all levels and disciplines, policy makers, CEOs, the general public, establishing a strategy for **communication**.

We need also to pursue the **two conference** idea: one for emergy practitioners (to be held preferably in Gainesville) on advancements of emergy research; one devoted to the communication of the emergy concept to policy makers, entrepreneurs and the general public; both conferences should be the occasion to discuss the communication strategy and its results.

I am excited by what the future holds for ISAER: emergy has still a lot to tell. If elected I will do my best to pursue these goals. Thank you in advance for your support.