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State of the SED – Message from the Chair

Eduardo Rincón Mejía

Since its establishment in 1966, ASME Solar Energy Division (SED) has promoted research development and application of solar related technologies as well as energy efficiency and conservation. Over the years, the activities of SED have been managed by dedicated members of the Executive Committee as well as the chairs of the Technical Committees. In addition to disseminating fundamental knowledge and engineering applications of a wide range of renewable energy and energy efficiency technologies (including wind, photovoltaics, solar thermal power, solar chemistry, bio-fuel conversion, solar heating and cooling, and energy conservation), SED continues to promote the involvement of students and young engineers through graduate student awards, student poster sessions, and career forums.

In the last two years, SED has extended its scope to cover new applications of renewable energy and efficiency technologies including sustainable communities and smart grid systems. In particular, the new Technical Committee on sustainable cities and communities has been very active and has organized 5 technical sessions with 27 papers during the 5th Energy Sustainability Conference (ES2011) to be held in Washington DC, August 7-10, 2011. Moreover, 6 technical sessions on smart grid systems, micro-grid concepts, and energy storage technologies are scheduled for ES2011.

SED continues to collaborate with the ASME Advanced Energy Systems Division (AESD) by organizing annual joint conferences. This year, the Energy Sustainable 2011 (ES2011) conference will be the 5th consecutive joint SED-AESD conference. ES2011 is concurrently organized with Fuel Cell conference and has attracted over 300 technical papers. ES2010 was co-located with American Solar Energy Society conference (SOLAR-2010) in Phoenix, AZ, and has attracted over 5,000 attendees. Since the first joint SED-AESD Energy Sustainability conference held at Long Beach, CA, in 2007, there is a growing interest in renewable energy research and applications, as attested by a significant increase in the number of technical papers from 137 in ES2007 to about 300 in ES2011.

Due to the success of Energy Sustainability conferences with high quality technical programs, especially over the last two years, SED has been able to improve its custodial fund. SED is now able to provide incentives to attract new members including students and young engineers through student awards, career forums, and student poster events. Moreover, workshops and training sessions have been organized during the last two Energy Sustainability conferences in an attempt to attract additional professionals. In the future, exhibits are planned to be organized during the Energy Sustainability conferences in order to attract and involve manufacturing companies into the SED activities. It is my believe shared by all members of the Executive Committee that tailoring SED activities and programs to attract students, new professionals, and manufacturing companies is the best avenue for SED to strengthen its programs and broaden its scope.
Office Bearers

Executive Committee Members

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Allison Gray, Member, NREL, allison.gray@nrel.gov

Division Technical Committee Chairs

Conservation and Solar Buildings Committee- Chair: Ming Qu, mgu@purdue.edu

Heating and Cooling Committee- Chair: Alvaro Lentz, solar.lentz@yahoo.com.mx

Sustainable Cities and Communities; Transportation- Chair: Honxi Yin, hyin@purdue.edu;
Co-chair: Martin Vorum, NREL, Martin.Vorum@nrel.gov

Photovoltaics Committee- Chair: , NREL,

Solar Chemistry and Bio-Conversion Committee- Chair: Jonathan Sheffe, ETH-Zurich, Switzerland, jsheffe@ethz.ch

Solar Thermal Power Committee- Chair: Allison Gray, NREL, allison.gray@nrel.gov
Co-chair: Nathan Siegel, npsiege@sandia.gov

Wind Energy Committee- Chair: Robi Robichaud, NREL, robi.robichaud@nrel.gov

Smart Grid, Micro-Grid Concepts; Energy Storage- Chair: Amip Shah, HP, amip.shah@hp.com
Co-chair: Maruthi Devarakonda, PNL, aruthi.devarakonda@pnl.gov

Education Committee- Allison Gray, NREL, allison.gray@nrel.gov
Opportunities for Publication

Journal of Solar Energy Engineering
Including Wind Energy and Energy Building Conservation
Prof. Gilles Flamant, Editor

The ASME Journal of Solar Energy Engineering is published quarterly and is available in print as well as electronic media on-line at [http://scitation.aip.org/ASMEJournals/Solar/](http://scitation.aip.org/ASMEJournals/Solar/)

The Editorial Board includes international experts who are responsible for topical areas including fundamentals and theory, heating and cooling, solar optics, solar collectors, solar thermal power, photovoltaics, wind energy, solar space applications, solar chemistry and bioconversion, conservation and solar buildings, energy storage, testing and measurement, emerging technology and energy policy.

The Journal welcomes papers that include original work of permanent interest in all areas of renewable energy and energy conservation as well as discussions of policy and regulatory issues that affect renewable energy technologies and their implementation. Papers that do not include original work but nonetheless present quality analysis or incremental improvements to past work may be published as Technical Briefs. Review papers are accepted but should be discussed with the Editor prior to submittal.

Papers can be submitted online at: [http://journaltool.asme.org/Content/index.cfm](http://journaltool.asme.org/Content/index.cfm)
For indexing information: [http://journaltool.asme.org/Content/AbstractIndex15.cfm?notoolbar=1](http://journaltool.asme.org/Content/AbstractIndex15.cfm?notoolbar=1)
ASME is soliciting nominations for the ASME Frank Kreith Energy Award. The award was established in 2005 by the Solar Energy and Advance Energy Divisions to honor Dr. Frank Kreith’s contributions to the fields of heat transfer and solar energy. The award honors an individual in recognition of significant contributions to a secure energy future through innovations in conservation and/or renewable energy technology. Contributions may be through research, education, and/or practice.

**Eligibility:** Only candidates whose names have been submitted in nomination will be considered for the award. Criteria for the award will be based on, but not limited to any of the following:

1. Significant research contributions in energy conservation and renewable energy
2. Significant contributions to education related to energy conservation and renewable energy
3. Significant contribution to the practice of engineering through invention, design or implementation of innovations in the field of energy conservation and renewable energy
4. Significant service to society that has lead to a more secure energy future.

**Nominations:** Nominations should be submitted using the standard ASME form for Society Awards that can be downloaded at [http://files.asme.org/asmeorg/Governance/Honors/SocietyAwards/7758.doc](http://files.asme.org/asmeorg/Governance/Honors/SocietyAwards/7758.doc). The nomination package should also include a curriculum vita of the nominee, a statement of the candidate's research, educational and professional accomplishments, limited to two pages, and five recommendations. Recommendations should be on the ASME form that can be downloaded at [http://files.asme.org/asmeorg/Governance/Honors/SocietyAwards/7760.doc](http://files.asme.org/asmeorg/Governance/Honors/SocietyAwards/7760.doc).

The recommendations should provide detailed evidence of the candidate’s contribution to a secure energy future through innovation(s) in conservation and/or renewable energy technology. An electronic copy (PDF format is preferred) of the candidate's package, including curriculum vitae, letters of recommendation, and the nomination form should be prepared and forwarded to the Chair of the ASME Frank Kreith Energy Award Selection Committee for review.

**Deadline:** All copies of the nomination package must be received no later than December 1, 2013.

Send nominations and inquiries to:

Catherine Mervyn  
ASME  
Three Park Ave  
New York, NY 10016-5990  
Telephone: (212) 591-7736  
E-mail: MervynC@asme.org
ASME Solar Energy Division Yellott Award

The Yellott Award is presented to an outstanding individual that has contributed significantly to the organization of the Solar Energy Division sponsored symposia.

Solicitation for Nominations for the ASME John I. Yellott Award The John I. Yellott Award is a biennial award sponsored by the ASME Solar Energy Division. This award, in honor of the Division’s first Chair, recognizes ASME members who have demonstrated sustained leadership within the Solar Energy Division, have a reputation for performing high-quality solar energy research and have made significant contributions to solar engineering through education, state or federal government service or in the private sector. Nominations are being solicited for the Award that is presented biennially. Nominees should:

- be a member of ASME and the Solar Energy Division
- have demonstrated outstanding leadership in ASME
- have a reputation for performing high quality research
- have made significant contributions to solar engineering through education, state or federal service, or in the private sector.

Previous Recipients of John I. Yellott Award
- 1992 William A. Beckman
- 1994 D. Yogi Goswami
- 1996 Robert L. Reid
- 2000 Frank Kreith
- 2002 Thomas R. Mancini
- 2004 Jane Davidson
- 2008 Aldo Steinfeld
- 2010 Robert Boehm
- 2012 Jeffrey H. Morehouse

2014 NOMINATIONS ARE DUE MAY 11, 2014

For more information or to make a nomination, contact:
Prof. Jorge E. Gonzalez
The City College of New York, 140th Convent Ave, Steinman Hall (T-238), New York, NY 10031E-mail: gonzalez@me.ccny.cuny.edu, Voice (212)650-5279
8th International Conference on Energy Sustainability

CALL FOR PAPERS

Co-Located with the 12th Fuel Cell Science, Engineering and Technology Conference, June 30th-July 2nd 2014, Seaport Hotel, Boston, MA

If you work in the new energy economy as a researcher, engineer, scientist architect, consultant or policy-maker please participate in this exciting conference for exchange of innovative ideas, leading edge concepts, new technologies and devices, ongoing R&D efforts, prototype and demonstration projects, commercialization technologies and projects, and visions of the future related to the theme of Energy Sustainability. New technologies and systems-thinking offer a path forward from environmental and economic catastrophe to a clean energy future. At this critical time, it is essential for universities, industries, R & D laboratories & Government agencies to cooperate and share information to propel clean energy technology into the future. The conference will consist of plenary talks, invited talks, panel discussions, workshops, tutorials, technical sessions, poster presentations and exhibitions, thus providing a unique opportunity for communication and collaboration between academia, industry and planners in the areas of Solar Energy, Energy Efficiency, Renewable Energy, Hydrogen Energy Technology, Biofuels and Advanced Energy Technologies. The Conference will feature a special track for students interested in solar and energy efficiency.

Papers accepted for publication in the ASME Energy Sustainability Conference Proceedings may be submitted for dual-review for referral to the ASME Journal of Solar Energy Engineering or the ASME Journal of Energy Resources Technology.

A variety of topics/sessions are available for presentations as it allows flexibility to the authors. All sessions are quality driven.

| Combined Energy Cycles, CHP, CCHP, and Smart Grids | Photovoltaics |
| Solar Buildings, including Solar Climate Control/Heating/Cooling | Micro and Nano Technology Applications and Materials |
| Fuels and Infrastructure, Biofuels and Energy Storage | Wind Energy Systems and Technologies |
| Thermofluid Analysis of Energy Systems, including Exergy and Thermoconomics | Geothermal, Ocean, and Emerging Energy Technologies |
| Hydrogen Energy Technologies | Sustainable Cities and Communities, including Transportation |
| Concentrating Solar Power and Solar Thermochemistry | High Performance Buildings |


Technical Program Chair: Allison Gray: allison.gray@nrel.gov
General Program Chair: Dr. Ming Qu: mqu@purdue.edu
Dear ASME Students and Faculty Advisors:

Looking for a challenging, interdisciplinary, renewable energy project where energy efficiency and management is essential to your team’s success? The SOLAR SPLASH is a unique opportunity for your Senior Design/Capstone classes or project/research class. The 21st annual SOLAR SPLASH, the international, intercollegiate solar/electric boating championship, is planned for June 11-15, 2014 in Dayton, Ohio.

The objective of the Solar Splash is get collegiate student teams to construct a solar-powered boat within a school year at a reasonable cost and then compete against other teams. The competition is designed to provide practical engineering experiences, encourage teamwork, and be fun – without a major disruption to the students’ academic schedule and at minimal cost. The Solar Splash helps the students develop project and program management skills and exposes them to a multitude of technical disciplines while teaching them the efficient use of energy and systems to create both a successful craft and competitive team. This “hands-on” project experience has made a significant contribution to many of the students’ careers. Over the past 20 years, over two thousand students have participated, many for multiple years.

Each year several of the competing schools are able to use their Senior Design course as the basis of their team, while other teams are non-credit extracurricular efforts. In order to help rookie teams get started, many of the veteran teams have volunteered to act as mentors for ‘how, when and where’ type issues. Also, Technical Reports, describing the boats and the power systems for last year’s top five competitors, are available on the Splash website as a resource for current and future competitors.

If you are interested in learning more about the Solar Splash competition, please visit our web site www.solarsplash.com and/or contact the Solar Splash Headquarters at hq@solarsplash.com and we will put you on our email list to receive the Splash newsletters. We hope you will join us at Solar Splash 2014!
Results from “SOLAR SPLASH” 2013: The International, Intercollegiate Solar/Electric Boat Championships

The 20th annual SOLAR SPLASH (initiated by the ASME Solar Energy Division in 1994) was held in June in Cedar Falls, Iowa for an “abbreviated” 3 days of the scheduled 5 days of competition, as heavy rains caused the State Park roads to be flooded by the high waters of the Cedar River. However, all events were held, even though compressed and shortened in a couple of cases.

The shortening of the competition did not faze the Cedarville University team as they dominated the field of 11 competitors by winning the Technical Report, the Slalom, the Sprint, and the Endurance events! The Geneva College team came in second place overall by edging out (by 2.59 points out of 1000) the home-team, University of Northern Iowa which won the Qualifying event. The California Poly-Pomona team took fourth place, while the team from the State University of New York-Stony Brook came in fifth place overall. Other notable wins included Middle Tennessee State University taking the Workmanship award and Northeastern University getting the Visual Display award.

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If you are interested in learning more about the SOLAR SPLASH competition, please visit the web www.solarsplash.com and/or contact the SOLAR SPLASH Headquarters at hq@solarsplash.com and you will be put on the email list to receive the Splash newsletters. Also, Technical Reports, describing the boats and the power systems for last year’s top five competitors, are available on the Splash website as a resource for all.