Solar Energy and Public Policy  
Spring 2018  
Wednesday 4:00pm – 6:00 pm  
Coor Hall 5635

MARTIN J. PASQUALETTI  
Professor, School of Geographical Sciences and Urban Planning  
Co-Director, ASU Energy Policy Innovation Council  
Founding Member, Board of Directors, Arizona Solar Center  
Member Advisory Board, Strategic Solar  
Former Chair, Governor’s Solar Energy Advisory Council.

Office: Coor Hall 5588  
Phone: 480-965-4548  
Email: Pasqualetti@asu.edu

This course is an introduction to solar energy policy. It is typically taken in conjunction with the DC summer workshop “Science outside the Lab,” but may be taken by others as a stand-alone course. The course will be largely made up of a series of discussions. Any readings and biographies of guest speakers will be posted on the course blackboard site.

Course Requirements

Participation in Seminar (25 points) – This course is largely based on discussions. For this reason, you must not only attend each seminar but that you also engage and be an active participant. To emphasize this, a significant part of your grade will be based on your engagement in the seminar.

Capstone Assignment (50 points for written presentation). Your capstone project that will be in two parts:

Part One – Summary of the salient points from each week of each presentations and subsequent discussions;

Part Two - Personal research on one of the topics presented during the course. topic.

Capstone Assignment (25 points for oral presentation). This will be a PowerPoint presentation of your chosen topic, using no more than one title slide, 3 core slides, and one reference slide.
Title IX

Title IX is a federal law that provides that no person be excluded on the basis of sex from participation in, be denied benefits of, or be subjected to discrimination under any education program or activity. Both Title IX and university policy make clear that sexual violence and harassment based on sex is prohibited. An individual who believes they have been subjected to sexual violence or harassed on the basis of sex can seek support, including counseling and academic support, from the university. If you or someone you know has been harassed on the basis of sex or sexually assaulted, you can find information and resources at http://sexualviolenceprevention.asu.edu/faqs/students.

As a mandated reporter, I am obligated to report any information I become aware of regarding alleged acts of sexual discrimination, including sexual violence and dating violence. ASU Counseling Services, https://eoss.asu.edu/counseling, is available if you wish to discuss any concerns confidentially and privately.

Academic honesty

Academic honesty is expected of all students in all examinations, papers, laboratory work, academic transactions and records. The possible sanctions include, but are not limited to, appropriate grade penalties, course failure (indicated on the transcript as a grade of E), course failure due to academic dishonesty (indicated on the transcript as a grade of XE), loss of registration privileges, disqualification and dismissal. For more information, see http://provost.asu.edu/academicintegrity.

If you submit work that is not your own, you will be fully disciplined in accordance with university policies. Plagiarism or cheating in any form will not be tolerated. It is your responsibility to be aware of, understand, and adhere to the rules and regulations of Arizona State University. In the “Student Academic Integrity Policy” manual, ASU defines “Plagiarism” [as] using another's words, ideas, materials or work without properly acknowledging and documenting the source. Students are responsible for knowing the rules governing the use of another's work or materials and for acknowledging and documenting the source appropriately.” Academic dishonesty, including inappropriate collaboration, will not be tolerated. There are severe sanctions for cheating, plagiarizing and any other form of dishonesty. For further details, please consult http://provost.asu.edu/academicintegrity.
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<tr>
<th>Date</th>
<th>Topic</th>
<th>Speaker</th>
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<tr>
<td>January 10</td>
<td>Introduction to Solar Energy Policy</td>
<td>ROBERT BOWLING Manager Solar Systems Training, First Solar</td>
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<td>January 17</td>
<td>Ramifications of the new Tax Overhaul (which includes a modified BEAT provision) and the International Trade Case (Section 201)</td>
<td>RON ROEDEL Emeritus Professor of Electrical Engineering Director, the PSM-SEEC program</td>
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<td>Ronald Roedel joined the ASU faculty in 1981 and served as Associate Dean of the Ira A. Fulton School of Engineering. His research centered on photovoltaic cell efficiency, design, and application. Since retirement in 2011, Dr. Roedel has continued to work in the solar energy enterprise. He now works as an advocate for solar energy at the state and local levels and in professional development efforts at the international level (in Palestine and Kosovo). At ASU, he received an NSF Presidential Young Investigator Award in 1984 and for 1990-2001, he was honored as the ASU Professor of the Year. He recently designed and built a backyard photovoltaic system for his residence in central Phoenix.</td>
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<td>January 24</td>
<td>Solar Energy Futures in a Fossil-Fueled World</td>
<td>JOHN HOFMEISTER Former President of Shell Oil Company and Founder, Citizens for Affordable Energy. He combines deep knowledge of energy in many contexts, including the business world, the academy, public policy, and non-governamental organizations. Hofmeister is the author of <em>Why We Hate the Oil Companies: Straight Talk from an Energy Insider</em>. Hofmeister serves as the Chairman of the National Urban League and is a member of the U.S. Department of Energy's Hydrogen and Fuel Cell Technical Advisory Committee as well as the Sodexo Business Advisory Board.</td>
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<td>Citizens for Affordable Energy, registered in Washington</td>
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<td>January 31</td>
<td>Solar Energy in the State of Arizona</td>
<td>LUCY MASON</td>
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<td><strong>Executive Director</strong>, Arizona Solar Energy Industries Association (AriSEIA)</td>
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<td>Mason began her political career as a member of the Prescott City Council. She served for eight years in the Arizona State legislature, and was Chair of the State House Energy, Water, and Agriculture Committee; and Chair of the State House Committee on Renewable Energy Technologies and Energy Efficiency. She is currently a Board Member- Arizona Solar Center, Inc.</td>
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<td>February 7</td>
<td>The PV and Electric Utility Business Models are Broken, What Comes Next?</td>
<td>JOHN R. BALFOUR, MEP, Ph.D., LEED AP</td>
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<td><strong>PV Systems Cosmologist; President and CTO, High Performance PV</strong>. <a href="http://www.highperformancepv.com/">http://www.highperformancepv.com/</a></td>
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<td>Dr. Balfour has been active in the PV industry for 37 years beginning in 1977 as The Energy Doctor. In 1998 he founded PerfectPower Inc., the most award winning PV company in North America as of 2010, designing and delivering some of the highest performing PV systems in the world (more kWhs/$ over time). In 2010, he founded High Performance PV while completing six textbooks Titled, “The Art and Science of Photovoltaics”, in response to the inconsistency in PV performance and information. He developed “PV System Design and Application Theory” to enhance performance, reliability and reduce long term O&amp;M costs.</td>
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### February 14

**Making Renewable Energy Beautiful**

- **Elizabeth Monian and Robert Ferry. Founding Directors, Land Art Generator Initiative (LAGI)**
  - **Elizabeth Monoian** (MFA Carnegie Mellon University). Founding Co-Director and Executive Director of the Land Art Generator Initiative (LAGI).
  - **LAGI@landartgenerator.org**. LAGI is developing global partnerships between private and public entities around interdisciplinary projects that address issues of climate and sustainability through the lens of creativity. Elizabeth has published, exhibited, and presented globally on the aesthetics of renewable energy and the role of art in providing solutions to climate change. Under her leadership, LAGI has received multiple National Endowment for the Arts grants and has been awarded the J.M.K. Innovation Prize, a program of the J.M. Kaplan Fund.
  - **Ferry, Robert. LAGI Founding Co-Director and Board Chair. Land Art Generator Initiative lagi@landartgenerator.org** Robert is a registered architect and LEED accredited professional with two decades of professional practice experience on both consultant and client sides. Following a decade of design and project management on sustainable new urbanist developments in the United States, he spent four years as a consultant on large commercial projects in Abu Dhabi, where his focus shifted to ways in which buildings can move beyond net-zero and contribute to the energy needs of the surrounding city.

### February 21

**Capstone Project – written submitted and oral presentation**

- Each class member will present their most important, significant, key conclusions and findings orally. Time for each will be 4 minutes and will be concentrated on a single power point slide, which is submitted at least 3 days ahead of class time.

### February 28

**Capstone Project – oral summaries**