

Energy 101 Dialogue #1- Energy in the Classroom Final Agenda

Download Webinar Slides: [Energy.gov/eere/education/downloads/energy-101-dialogue-series-downloads](https://www.energy.gov/eere/education/downloads/energy-101-dialogue-series-downloads)

1) Introduction

Energy 101 Initiative: Framing the Issue – Dr. Matthew Garcia: Matthew.Garcia@ee.doe.gov
Described activities and goals of the Energy 101 initiative including the Energy 101 framework and the purpose and goals associated with the Energy 101 Dialogue Series

**Energy 101 Initiative - [Energy.gov/eere/education/energy101](https://www.energy.gov/eere/education/energy101)
Energy 101 Dialogue Series - [Energy.gov/eere/education/energy-101-dialogue](https://www.energy.gov/eere/education/energy-101-dialogue)**

2) Instructors in Energy Education Panel

- **Professor Leigh Abts** - Research Associate Professor, University of Maryland
www.bioe.umd.edu/faculty/abts

Energy 101 by Design: Designing a Sustainable World, Designing Quantitative Solutions for Energy

The use of the Energy 101 Framework and Energy Literacy Principles in the design and creation of energy fundamentals courses

<http://ter.ps/bioe110>

- **Professor Daniel Kammen** - Professor, Energy and Resources Group, University of California, Berkeley; Director, Renewable and Appropriate Energy Laboratory
kammen.berkeley.edu/

Energy and Society

Description of Energy and Society course and its content at UC Berkley

<http://er100200.berkeley.edu>

- **Professor Andy Bunn** - Associate Professor, Western Washington University; Director, Institute for Energy Studies- huxley.wwu.edu/people/bunna

Lessons Learned While Teaching Energy without a License

A conversation on teaching difficult energy concepts in the classroom

<https://energy.wwu.edu/>

- **Professor Douglas J. Reinemann** - Professor, University of Wisconsin-Madison; Department Chair, Biological Systems Engineering bse.wisc.edu/Douglas_Reinemann.htm

Renewable Energy Systems

Description of the Renewable Energy Systems course at UW-Madison

- **Professor Kenneth Klemow** - Professor, Wilkes University; Associate Director, Institute for Energy and Environmental Research - www.wilkes.edu/pages/1970.asp

Energy in Our World

Description of the fundamentals of energy course; Energy in Our World at Wilkes University
klemow.wilkes.edu/BIO-EES-105.html

3) Online Energy Education Discussion Forum

Interactive and pre-populated discussion points and comments
 Virtual Forum FAQ and current answers can be found at:
www.nerlearning.org/forum/-/message_boards/message/1174462

4) Resources Discussion

- **Professor Justin Hougham** – Northwest Advanced Renewables Alliance - Assistant Professor, University of Wisconsin-Extension; Director, Upham Woods Outdoor Learning Centers
www.uwex.edu/ces/4h/uphamwoods/intro/contact.cfm

Integrating Research and Education: Education at the Speed of Research

Information on the Research and Education programs at Northwest Advanced Renewables Alliance

- **Todd Cohen SEED Center** - American Association of Community Colleges; Director, Sustainability Education and Economic Development Centers:
www.theseedcenter.org/About-SEED/Who-We-Are

The SEED Center and Energy 101

Information on the American Association of Community Colleges Sustainability Education and Economic Development program

- **Dr. David Blockstein** - National Council for Science and the Environment; Senior Scientist and Director of Education: www.ncseonline.org/david-blockstein-phd

CEREL-National Energy Education Summit 2014

Information on the National Council for Science & Environment; Council of Energy Research and Education Leaders (CEREL) and the 2015 National Energy Education Summit
<http://ncseonline.org/2015-national-energy-education-summit>

5) Conclusion - Summary, take-aways, action items, and next steps: Energy101@ee.doe.gov

- **Federal Resources for students and post-secondary energy education**

Education & Workforce Homepage- Energy.gov/eere/education/education
 DOE Student Competitions- Energy.gov/eere/education/competitions
 Student Internships- Energy.gov/eere/education/find-internships
 Federal Energy and Manufacturing Workforce Training Programs-
Energy.gov/eere/education/federal-energy-and-manufacturing-workforce-training-programs

CALL FOR PAPERS – JOURNAL OF SUSTAINABILITY EDUCATION

2015 WINTER THEME: BEYOND CONSERVATION: REIMAGINING THE PURPOSE OF ENERGY EDUCATION

GUEST EDITORS:

DR. JUSTIN HOUGHAM, justin@nararenewables.org

AND DR. JAN DEWATERS, dewaters@clarkson.edu

Energy is an essential resource that has provided the foundation for our current economic and social systems. A major challenge to human quality of life in the 21st century will be our successful adaptation to changes in the energy resources and conversion systems that support and sustain us. Energy literacy is key to a sustainable energy future.

Educational efforts that focus on resource conservation, while important, are not enough. A comprehensive energy education framework will be based on sound STEM (science, technology, engineering, and math) education fundamentals and delve into questions concerning the raw materials that provide our energy; how that energy is harnessed, transmitted, and used; and the true costs and overall efficiency of a given energy system. Deeper approaches will address eco-social justice, advance community resilience, and use real-world data sets that maintain transparency of energy resource distribution, consumption, and social, environmental and economic costs.

For this edition of the Journal, we'll be looking for contributions that: highlight and assess energy education initiatives; deepen our understanding of the relationships between our energy, economic, social, and ecological systems; and develop recommendations for systems-based behavior and social change efforts. We welcome a range of submission types, including academic research papers, opinion pieces, case studies, and media reviews. We especially encourage quality alternative media such as digital postcards, photo collages, video interviews or discussions, and others.

Submissions are due September 15, 2014 for consideration to be published in a January 2015 edition. For a longer explanation of this edition please click here:

<http://www.jsedimensions.org/wordpress/2014-fall-theme-beyond-conservation-reimagining-the-purpose-of-energy-education-call-for-papers/>.

DR. LARRY M FROLICH, EDITOR, editorjse@gmail.com

WWW.SUSTED.ORG

2015 National Energy Education Summit

Organized by the Council of Energy Research and Education Leaders (CEREL)

Monday, January 26, 2015

Hyatt Regency Crystal City

at the Washington, DC National Airport

The Summit will engage energy educators at all levels to build, improve, and expand energy education and serve the needs of diverse populations of students and citizens. The Summit will cover what we teach in energy education, how we teach it, how we can collaborate to teach it better, and how we can overcome critical challenges.

The Summit will include organized symposia, contributed presentations, posters and workshops on how to advance various aspects of energy education. We will also hear from leaders in government, business and industry and civil society in plenary sessions.

We invite you to submit a proposal for a symposium and workshop combination (see below), or an individual oral presentation or poster.

<http://ncseonline.org/2015-national-energy-education-summit>

Engaging Diverse Young Learners in Energy

Join us for the National Energy Literacy Virtual Town Hall

Tuesday, August 5, 2014

3:00pm - 5:00pm

GoToWebinar Registration Link:

<https://www1.gotomeeting.com/register/973763169>

Space is limited – register today to ensure your place.

Goal: To help educators teach and learn about engaging diverse K-12 learners in energy.

Join the Virtual Conversation #EnergyLiteracy today and engage with the #energy future of tomorrow.

The Department of Energy invites you to participate in the National Energy Literacy Virtual Town Hall on August 5th from 3-5:00 PM (ET).

The webinar will be a dynamic, virtual conversation about ongoing efforts from across the country in utilizing the Department of Energy's Energy Literacy Framework to address one of our nation's' biggest national challenges, "Energy Illiteracy."

Through rapid fire sessions you will hear about national, new media and localized efforts using e-books, experiential curriculum and best practices in energy education. You will also be given the opportunity to engage in an online discussion by providing pre- and post-dialogue feedback.