

**Meeting of the Association of State Energy Research and  
Technology Transfer Institutions (ASERTTI)  
October 16-18, 1997**

*Draft Minutes – Recorded by Denise Evans, edited and revised by  
Dan York and Mark Hanson*

**Participants (incomplete)**

Jerry Lonergan, Kansas Electric Utilities Research Program  
Bob Koger, Advanced Energy  
Gunnar Walmet, NYSERDA  
Mark Hanson, Energy Center of Wisconsin  
Jack White, UTECH  
Kristi Growdon, WSU Energy Program  
Rich Hackner, Energy Center of Wisconsin  
Mark Kendall, Oregon Office of Energy  
Parker Mathusa, NYSERDA  
David Bloch, Florida Solar Energy Center  
Jason Helton, Northwest Missouri State University  
Russ Lindenlaub, Missouri Enterprise  
Tom Welch, Missouri EIERA  
David Rohy, California Energy Commission  
Dan York, Energy Center of Wisconsin  
Bill Valentino, NYSERDA  
Marilyn Brown, Oak Ridge National Laboratory  
Duncan Kinchloe, Electric Power Research Institute  
Glenn Hourahan, Air-Conditioning and Refrigeration Institute  
Char Stuewe-Portnoff, Missouri DNR Division of Energy  
Larry Ambs, Massachusetts Center for Energy Efficiency and Renewable Energy  
Art Rosenfeld, US DOE  
Grant Brohard, Pacific Gas & Electric Company  
Morton Blatt, Electric Power Research Institute  
Jon Biemer, Bonneville Power Administration  
Marvin Lieberman, EPRI  
Steve Mahfood, EIERA  
Dave Dwarzak, EEI  
John Reese, US DOE  
Denise Evans, EIERA

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**October 16, 1997**

**Welcome and Introductions**

Steve Mahfood welcomed participants on behalf of the Missouri Environmental Improvement and Energy Resources Authority. After group introductions, Bill Valentino provided an overview of the agenda for the meeting.

### **Policy Issues**

Mark Hanson, Bill Valentino, Jack White and other participants in the Executive Dialog on Public Purpose R&D reported their impressions and key outcomes of this event. ASERTTI was one of several sponsors and had participated in the planning of the Dialog. Participants reported that the Dialog had been successful in attracting a large, diverse audience. They also reported that as a whole, the content was on target and the facilitated discussions were successful in helping define strategic options.

Participants provided brief summaries of restructuring initiatives in their states or regions. Bill Valentino distributed, *A Status Report of Public Benefit Programs in an Evolving Electric Utility Industry*, which was prepared by Tucker Ruberti, a NYSERDA intern.

Marvin Lieberman and Duncan Kinchloe provided updates on EPRI activities. EPRI will provide science and technology based solutions—*New Vision*—and is expanding its membership internationally—now has 30 international members. They also noted how industry labs are being shut down, which is having an impact on EPRI's operation.

Marilyn Brown provided a newly published report, *Scenarios of U.S. Carbon Reductions: Potential Impacts of Energy Technologies by 2010 and Beyond*, prepared jointly by five of the DOE national labs (the "Interlaboratory Working Group on Energy-Efficient and Low-Carbon Technologies). The objectives of the study were to assess the costs and potential impacts of various strategies for reducing greenhouse gas emissions. The report was commissioned by DOE in conjunction with upcoming international talks at Kyoto. The full report is available on-line at [http://www.ornl.gov/ORNL/Energy\\_Eff/CON444](http://www.ornl.gov/ORNL/Energy_Eff/CON444). Brown provided a summary of the key findings of this study, which suggest that significant carbon reductions can be achieved through cost-effective energy efficient technologies. Art Rosenfeld also reported on this DOE study, and also discussed budget trends and history for funding energy-efficiency R&D within DOE.

John Reese, US DOE Office of Building Technology reported on recent activities within OBT. He noted that his office is taking a budgetary "hit," and that OBT has been criticized for not having enough focus. Consequently, OBT must have a strategic plan in place by December 15, 1997. Likely outcomes will be fewer, larger initiatives, along with more competition and peer review of R&D projects. The *Million Solar Roofs* initiative is part of a focus on "whole buildings" approach and integrated building systems. Climate change will be a major driver for DOE OBT activities.

### **Overview of Energy and Environmental Research Initiatives in Missouri**

Steve Mahfood introduced the panel of speakers, who represent various energy and environmental research initiatives in Missouri.

Russ Lindenlaub, Missouri Enterprise, reported on the efforts of his organization (a private, not-for-profit entity) to develop new businesses and industries in Missouri. He commented on how industry restructuring will affect his constituents. He high-lighted a number of activities:

- Based on *Manufacturing Extension Partnership*, a federal Department of Commerce program, which is used in a number of other states.  
-25% of revenue from private fees

Jason Helton, Northwest Missouri State University, reported on biomass research activities at his institution, which has 6000 students enrolled.

Glenn Hourahan, American Refrigeration Institute, gave a presentation, *HVAC&R Research for the 21<sup>st</sup> Century*. ARI research is focussing on:

- Ultra high efficient equipment
- Screen/Research on Novell systems
- Smart system integration
- Indoor Air Quality (temp/humidity) concerns
- New environmentally friendly working fluids
- Multiple research projects in each area
- High efficiency motor systems
- Oil free compressors
- Heat transfer research
- Component/System minimization
- New technology for humidity control
- More efficient air handling
- Improved controls and systems
- New thermal storage techniques

ARI seeks input and commitments from ASERTTI members, including  
financial support  
technical ideas and research needs  
endorsement of effort  
assistance in obtaining funding from others

AEI's Research Initiative to be reviewed and approval sought at November meeting.

### **Energy Efficiency Market Transformation Initiatives and Possible ASERTTI Collaboration**

Mark Hanson reported on the National Compressed Air Collaborative, which the Energy Center of Wisconsin is administering on behalf of DOE and other participants.

Highlights:

- Collaborators contribute \$30,000 each
- Compressed air systems marked by poor design and maintenance of systems

- Collaborative Advisory Board to consist of 3 to 4 ASERTTI members

Gunner Walmet reported on lighting initiatives.

- Will be meeting with DOE contacts on December 2 and 3 in Washington DC
- Have good ASERTTI sponsorship
- DOE and EPA participating
- Commercial lighting controls is a focus
- Need to define what the needs are—a national agenda may possibly emerge
- Products to be put together in the January/February '98 time frame

Parker Mathusa reported on transportation initiatives.

- nine states expressed interest in transportation initiatives at meeting in Golden, CO
- Program plan approved
- Cover letter indicates where we are
- Seven states indicated support
- Memorandum of Understanding between ASERTTI and California Energy Commission
- Payment Quality Indicator-Congestive litigation factor

Gunnar Walmet introduced Chris Cockerall, DOE Regional Support Office, Office of Industrial Technology, Kansas City, who reported on DOE industrial technology initiatives. Highlights:

- Apply a model-open participation
- Steam participation
  - DOE-Alliance of Energy
  - Improvement on Steam Efficiency
- Industrial Applications (on site)
- Self Evaluation Process
- Working with state organizations through regional support offices
- Seek support for Motor Challenge-financially and programmatically
- West Virginia and California offer model industry approach
- Interested in assisting with developmental model
- ASERTTI members to target selected groups (local interest) that make sense in their own areas
- Industry Assessment Centers (30 throughout country) mirroring capabilities

Jon Beimer discussed Industries of the Future, and also discussed “Coordinating Northwest Industrial Energy Efficiency Services.”

**October 17, 1997**

**Update on Strategic Alliances/UTECH Activities**

Jack White reported on Strategic Alliances and related UTECH activities.

- DOE Funding: Contact Art Rosenfeld. Have secured DOE funding for commissioning training initiative
- Most significant progress has been made in buildings area
- Principal Agenda item
- Everyone should make comments on DOE Plan and send in separately and collectively
- Results of phone survey:
  - 3-4 members/some more recently
- Care strategies-Janet to provide list
- Parker Mathusa-handling updating of mailing list

Mark Hanson reported on interactions between ASERTTI and various Washington contacts/organizations.

- UTECH's work with ASERTTI has kept it on radar screen
- Support and coordination of agenda

Gunnar Walmet reported on industry relationships—on on-going process.

- More complete list-OIT material
- IAC (missed projects in New York)
- Looking for process solutions
- Focus on large energy users
- “Metal casting industry”
- Smaller group to meet in Washington in November-1/2 day session in combination with OIT people
- ASERTTI-become an organized body/recommended
- NASEO-International activities

Kristine Growdon reported on ASERTTI initiatives with NASEO.

- NASEO has a lot of interaction with DOE—something ASERTTI is striving to emulate
- ASERTTI should take advantage of NASEO meetings to provide presence on the national level for ASERTTI
- NASEO provides a strong constituency for ASERTTI research results, which suggests NASEO could provide strong political support for ASERTTI

Gunner Walmet reported on the Building Performance Institute. Highlights:

- Many states have joined the Institute
- Skilled certification is the delivery mechanism
- Target is non-low income dwellings
- Potentially fairly large interest
- Evaluate-effectiveness of how money is spent on energy efficiency

David Block provided some updates on renewable energy/solar initiatives, including:

- “key people in attendance” at recent meeting with DOE contacts
- ASERTTI has nothing to promote-no renewable energy projects
- FSEC involved with “900 solar waste heating systems in Florida”
- Concept of 1 million solar roofs (DOE initiative)
  - ⇒ Conventional design (types used in Florida and New Mexico)
- Training-developing new program
  - ⇒ SWAP-million roofs
- PV Split--Sandia/systems work
  - ⇒ Module backwards-NREL

Jack White reported on development of relationships with national laboratories:

- February 1998 ASERTTI meeting
- Build on relationships we already have
- Relationship management-participate in ASERTTI meetings
- Janet-South Carolina/someone to show at meetings
- Golden opportunity to recruit

### **ASERTTI Administrative Business – Executive Session**

David Block reported the results of a survey as to funding and structure of ASERTTI. Steve Mahfood responded:

- Jump from \$5,000 to \$10,000/too much
- More realistic \$1,000 to \$5,000 depending on size
- Structure and funding of ASERTTI are fundamental issues

Kristine Growdon commented on perceptions of ASERTTI that she has encountered in working with others outside of ASERTTI. Generally the awareness of ASERTTI is not high and its role is not well understood.

Members reported that Jack White’s representation of ASERTTI in Washington has been of great value to the organization. Bill Valentino commented that this has helped “win the hearts and minds” of key contacts. This work has been extremely successful, but ASERTTI also needs to develop a longer-term strategy. A key question is to determine how much of Jack White’s time does ASERTTI need.

Mark Hanson reported on the terms of contracting with UTECH (Jack White).

David Block offered some perspectives from his experience with other formal organization as to why ASERTTI should not become a formal organization.

Other members offered other comments on the idea of making ASERTTI a formal organization.

Administrative costs from NYSERDA have been principally to cover Janet Joseph's costs. Bill Valentino noted that in passing the leadership, he, Janet and others from NYSERDA will help through the transition.

Dave Block made a motion to keep ASERTTI informal for a year. The motion carried through informal voice polling. There was some additional discussion of funding and Washington activities. Mark Hanson reviewed costs to date from ASERTTI's contract with UTECH.

Bill Valentino recommended that Mark Hanson become the next ASERTTI president and that the position be called chairman. The group affirmed this recommendation. Mark accepted this position. Mark will select a vice-chair before the winter ASERTTI meeting. David Block recommended that an executive committee be created as a sounding board and advisory panel for ASERTTI leadership.

The next ASERTTI meeting will occur in conjunction with NASEO's winter meeting in Washington, DC, February 9-11. Key topics are to include:

- joint ASERTTI/NASEO planning
- restructuring updates and impacts
- collaborative agenda
- relationship management
- international

Marilyn Brown, of Oak Ridge National Laboratory offered to host the fall 1998 ASERTTI meeting. The group accepted this invitation.