

**Meeting of the
Association of State Energy Research and Technology Transfer
Institutions, Inc.
March 13-15, 2001
Washington D.C.**

Kristine Growdon, ASERTTI Chair, and Washington State University called the meeting to order at 8:50 a.m. on Tuesday, March 13, 2001 with the following persons present:

Larry Ambs, Center for Energy Efficiency and Renewable Energy
Floyd Barwig, Iowa Energy Center
Marcy Beck, Lawrence Berkeley National Laboratory
Christine Benedict, NYSERDA
Sherry Benzmilller, Energy Center of Wisconsin
David Block, Florida Solar Energy Center
Marilyn Brown, Oak Ridge National Laboratory
Tom Butcher, Brookhaven National Laboratory
Jim Cole, California Institute for Energy Efficiency
Michael DeAngelis, California Energy Commission
Richard Drake, NYSERDA
Ron Edelstein, GTI
Bill Flynn, NYSERDA
Ken Galanto, Northeast Utilities
Larry Golan, South Carolina Institute for Energy Studies
Kristine Growdon, Washington State University
Mark Hanson, Energy Center of Wisconsin
Jeff Harris, Lawrence Berkeley National Laboratory – DC
Steve Hauser, Battelle – Pacific Northwest National Laboratory
Terri Helmlinger, North Carolina State University – IES
Bill Horak, Brookhaven National Laboratory
John House, Iowa Energy Center
Scott Hutchins, US Department of Energy – Boston Regional Office
George Kelly, NIST
Bob Koger, Advanced Energy Corporation
Russ Leslie, Lighting Research Center
Joe Malinovsky, US Department of Energy – EERE
Bob McGuffey, North Carolina Solar Center
James Merritt, US Department of Energy – OIT
John Morrison, Advanced Energy Corporation
Gary Obleski, Governor’s Green Government Council
Miriam Pye, NYSERDA
Bill Raup, US Department of Energy, EERE
Mark Rea, RPI/LRC
Anna Shipley, ACEEE
Peter Smith, NYSERDA
Roya Stanley, National Renewable Energy Laboratory

Tom Tanton, EPRI – Palo Alto
Bill Valentino, ASERTTI
Joe Visalli, NYSERDA
Abby Vogen, Energy Center of Wisconsin
Gunnar Walmet, NYSERDA
Jack White, ASERTTI
Bill Worek, University of Illinois at Chicago – Energy Resource Center
Adriene Wright, EPRI – Washington DC

1. Energy and the Role of the States in the Bush Administration

The membership discussed the small task force form by Vice-President Chaney. There is not a lot of detail regarding the task force at this time, and a detailed timeline of the task force's action is due in mid-April. The task force will be focusing on long term national policy considering private, state and national resources. There is currently no R&D mentioned in the task force's reports.

David Block noted that Smith-Feinstein bill is a performance based incentive bill. This bill provides tax incentives for:

- ◆ Efficient new residential buildings
- ◆ Efficient heating, cooling and water heating equipment that reduces consumer energy costs
- ◆ New and existing commercial buildings with 50% reductions in energy costs
- ◆ Solar hot water and photovoltaic systems

2. Status Reports on Collaboration between the States and the Department of Energy

a. Procurement/Solicitation Issues

Joe Malinovsky, US DOE described the current status of the MOU between ASERTTI, NASEO, CEC and NYSERDA. The mutual goals of the MOU process are to improve US energy security, increase US competitiveness and economic prosperity, and improve the environment. The role of MOU partners is to enhance the effectiveness and efficiency of public sector RDD&D investments, foster inter-partner and intergovernmental cooperation and collaboration across energy sectors, and collaborate of energy RDD&D.

EERE is working with the new administration to understand its goals, objectives and priorities and will create new department policies to support the administrations' goals and objectives.

Over the next few months EERE will review the MOU and the procedures for joint R&D planning between DOE and the states. An agenda will be developed to allow for: discussion of focused collaborative planning events, technical web-based databases for purposes of joint planning, identification of priority research areas and other actions, development of a single DOE point of contact for formal coordination of collaborative programs, and defining the path forward.

DOE will be issuing a \$6 million solicitation, similar to the solicitation issued in 2000 for state collaboration. The membership voiced concerns including that the time period from when a solicitation is issued to when the award is made is too lengthy.

DOE's desired procurement model would be that 80% of awards would be made by October and that acquisition planning take place between December and March annually, along with project specifications, scopes of work and associated documentation completion by June.

There are several strategies to assist in the procurement model including: development of an acquisition guide, develop EERE program management and project management guide, provide customer training coordination, implementation of a unified EERE project management approach, and development of a comprehensive business management web page.

b. Office of Building Technologies – State Planning

Jim Cole, CIEE and John Ryan, DOE discussed the current joint OBT – State planning. OBT would like to make the relationship with ASERTTI more strategic. The president will deliver the budget bill in early April. After the budget is delivered EERE can work on the 2003 budget. The states' role is very important in the new administration. There is great interest from the new administration on how much the federal dollar leverages.

Jim Cole distributed to the membership ASERTTI – DOE Collaboration Opportunities Status Reports. Please see report for full details¹. Collaborative opportunities with DOE is at a critical stage, and DOE has responded to some of the ASERTTI collaborative ideas.

Indoor Air Quality, Distributed Generation and Thermal Distribution, Building Integrated PV Systems, and Heat Pump Water Heater have been identified as high priority areas by both DOE and ASERTTI. To proceed on these topics ASERTTI members will talk with the appropriate DOE staff and plan on how best to work on these topic areas.

c. Office of Industrial Technologies – State Planning

Denise Swink and Sandy Glatt of DOE solicited comments from ASERTTI members regarding the current OIT and state planning status. There are successful collaborations that can be used as a template for future and expanded collaborations.

Industries of the Future has had success in many states. West Virginia has a strong coalition with an industry lead. North Carolina including Advanced

¹ To receive a copy, contact Sherry Benzmilller, sbenzmilller@ecw.org

Energy, NC Energy Office, NC University and others are involved in pulp and paper and mining. The IOF program is trying to bring more utilities on board as collaborative partners and to develop new relationships with industry.

Wisconsin has developed a very successful Metalcasting Roadmap through the IOF program, and is working on a similar effort in the pulp and paper industry.

Washington's IOF programs have been flexible with interest in pulp and paper, agriculture, mining, and aluminum. Washington has faced problems especially in the aluminum industry with companies shutting down because they can sell electricity for more than what they would make selling aluminum. The pulp and paper industry as well as the mining industry work is going well, and are they currently trying to get an industry showcase.

d. Office of Power Technologies – State Planning

Bill Parks and Kathy Short, DOE discussed OPT with the membership. OPT has three areas with strategic goals: renewable energy, distributed energy resources, and reliability and power quality. The OPT portfolio for FY01 include appropriations of \$358 million.

Recent outreach efforts included in the Northeast workshops with NASEO, EPA, states, and private sector; Southern states energy board with Virginia, Texas, Alabama, and Florida; Western states with efforts in strategy, planning and reliability; and re-powering the Midwest.

OPT is working closely with ASERTTI and other MOU partners with emphasis on barrier busting and niche R&D activities. There are more opportunities than time or resources allow to pursue effectively. Opportunities for collaboration in mutual interest areas between OPT and the states include biopower community development, wind field verification, geothermal market resource assessment, joint solar energy activities, DER-minigrad and power park test beds, and education of government officials, business executives, and the general public are all top priority areas.

To continue to move forward on collaborative efforts, mutual focus is on the best opportunities for success in FY01 while maintaining flexibility for FY02.

e. Report on Office of Transportation Technologies – State Planning

Jim Merritt, DOE and Richard Drake, NYSERDA updated the membership on OTT. DOE collaboration areas with the states include a California fuel cell partnership, bioenergy, clean cities and regulatory efforts, truck fuels, and cooperative R&D.

State partnerships in Bioenergy has provided funding for the development of bioenergy projects in 49 states. Successful ethanol programs from the Great Lakes Region are being adopted by New England States. Southern States Biobased

Alliance developed incentives and policies that encourage the development of a bio-products industry. Additionally, the bioenergy partnerships provide support for the Governor Ethanol Coalition – an organization representing the governors of 24 states.

The Clean Cities program continues to move forward with 79 clean cities designated in 38 states with three new designations planned for 2001 (Triangle Region, NC; Twin Cities, MN; and Burlington, Vermont).

DOE/OTT is taking the lead on workshops to identify specific areas for collaborative state R&D planning and to develop a framework. Three possible areas of focus include fuels, vehicle R&D, and validation testing.

f. Fossil Energy Program and Collaboration with States

Bob Kripowicz described DOE's fossil energy program. State involvement in the Fossil Energy program is of growing importance. The MOU between DOE, ASERTTI and others along with broad based financial assistance and new fossil energy initiatives are instruments for state collaboration. The Fossil Energy program currently has projects in 45 states valued at over \$6.5 million. Various programs include coal and power systems, demonstration, vision 21, central power systems, distributed generation, fuels, carbon sequestration, advanced research, and oil and natural gas.

The fossil energy program involves more than 245 colleges and universities in 22 states valued at more than \$132 million.

3. Status Reports on Existing Projects

a. Joint NASEO-ASERTTI-DOE Smart Schools Project and Daylighting

Mark Hanson, ECW, Frank Bishop, NASEO and Abby Vogen, ECW updated the membership on the status of the Smart Schools project. This project is a result of last year's DOE \$6 million solicitation. An interesting aspect of this project is the quick start in some state elements, although contract specifics are still being worked out. State co-funding is being used to allow for the quick start. The recent NASEO conference included a kick off meeting of the project. The total budget of the project is \$3.5 million. Task 4 specifically focuses on the Advanced Daylighting Guidelines as developed by the Daylighting Collaborative™.

b. Industrial Best Practices

Miriam Pye, NYSERDA updated the membership on the status of Industrial Best Practices. The mission of the project is to improve manufacturing productivity and the environment. The project has resulted in resources such as tip sheets, case studies, source books, software, training courses. The clearinghouse for resources and other information on industrial best practices can be contacted at 1-800-862-2086 or www.oit.gov/bestpractices.

c. Building Commissioning Training

Floyd Barwig, Iowa Energy Center updated the membership on the collaborative project involving DOE, IEC, ECW, and the National Energy Management Council. The focus of the project is how to do building commissioning rather than what to do. To date over 800 individuals have been trained, and a week long advanced training is scheduled for September at the Iowa Energy Center.

d. NLPIP

NLPIP continues to be a long term collaborative effort involving ASERTTI members. Gunnar Walmet, NYSERDA distributed a handout to the membership. The overall impact of NLPIP includes:

- 3800 registrants using NLPIP online; over 300,000 print publications distributed
- Over 100 new registrants per month collectively specifying lighting equipment for about 17 million square feet building
- NLPIP online continues to grow, about 4400 reports downloaded monthly.
- NLPIP's facilities and operations used as model for a new program starting this year called PEARL (Program for the Evaluation and Analysis of Residential Lighting).

e. State OIT T2

Mark Hanson, ECW briefly discussed Wisconsin's Metalcasting Roadmap. Copies were available for the membership.²

Iowa is beginning to work with the Metalcasting Industry.

Pennsylvania recently had a conference that included a break out session on food processing which could be a new collaborative area for ASERTTI.

f. Energy Empowerment Conference

Last year a successful event was held in Wisconsin. This year NYSERDA is hosting the event on May 7-8th.

4. New Collaborative Projects

a. LRC Lighting Proposal

Mark Rea and Russ Leslie, LRC updated the membership on the Lighting Research Proposal introduced at the October 2000 ASERTTI Meeting. The LRC is still looking for partners on the project.

b. Light Right Proposal

Steve Hauser, PNL introduced the Light Right Program. The goal of the project is to transform the market for lighting by using sound research to investigate the link between lighting quality and the performance, satisfaction and productivity of

² A copy can be download at <http://www.ecw.org/ecw/productdetail.jsp?productId=1>

workers. Phase I was successfully completed and was designed to test the hypothesis, and Phase II will focus on field tests to observe the impact. Phase III will focus on tool development. Funding level for the project is about \$450K. If more collaborative partners are identified, the research can be expanded.

c. ACEEE Emerging Industrial Technologies Study

Neal Elliot, ACEEE described the ACEEE Emerging Industrial Technology Study which is a result of a joint effort between ACEEE and LBNL. Industry is the largest energy consuming sector in the US using 37% of primary energy. The project is designed to provide an assessment and identify energy R&D projects, potential technologies for market transformation, and provide common insights into technology development and energy efficiency potentials. A preliminary list of emerging energy efficient industrial technologies was developed with 50 key technologies identified. The results show that there is now and will continue to be many innovative technologies to improve energy efficiency. Areas of future research may include integration into direct public benefit activities, forecasting both regionally and nationally, and integration of technology and market assessment into policy design on state and federal levels.

d. CO₂ Sensors

Bill Worek, UIC-ERC updated the membership on the continuation of the multiyear program in Illinois. The project includes partners with CEC, NYSERDA, ORNL, NETL, and the Illinois Department of Community Affairs. The project is also working with a manufacturer on development of a sensor that measures CO₂ and humidity at a cost of about \$50 per sensor.

e. Anaerobic Digestion and On-farm DG Proposal

Joe Visalli, NYSERDA updated the membership on NYSERDA's work in the agriculture area. The proposal would develop comparable information on digester systems. Each state would run their own program with similar data collection in each state. The information would be collected and the information shared among all state partners.

NYSERDA has funding in place for digester programs, drafted a scope of work for ASERTTI partners including Wisconsin, North Carolina, Iowa and New York. Next steps include reaching an agreement on common core monitoring, development of a multi-year schedule to cover all monitoring in participating states and finalization of a multi-state coordinator.

f. Water Treatment Collaborative

Mark Hanson, ECW informed the membership on the new collaborative underway in Wisconsin. The WATER Alliance is made up of a consortium of consultants, Wisconsin Water Utilities, NYSERDA and other players. Areas of interest include R&D, water and waste water treatment, water loss, targeted pumping programs, distributed generation, and assisting in regulatory approval processes.

g. Fuel Cells and Microturbines

Mike DeAngelis, CEC provided a status report of ASERTTI's fuel cells and microturbines program proposal. During DOE's solicitation process last year, ASERTTI submitted proposals for funding, which were not awarded. Initial budgets were asking 25% of funding from DOE. The proposals will be re-worked and resubmitted again this year.

The fuel cell proposal consisted of six tasks: program coordination, standardized lab testing and protocol development, standardized field testing and reporting, 10 plug power demonstration tests, 3 proton energy stems 5kW demonstrations, testing data collection and information transfer.

The microturbine proposal consisted of seven tasks: coordination and management, standardized lab testing and protocol development, standardized field testing and reporting, multifamily homes demonstration, demonstration of low NO_x combustor, demonstration of microturbine CHP with 3 stage heat recovery, and demonstration of 10 microturbines in commercial buildings.

h. Renewable Credits Trading Collaboration Opportunities

Joe Visalli, NYSERDA informed the membership of the Renewable Credits Trading Collaborative. The Clean Energy Fund is the leader in this area. This may be a collaborative that ASERTTI members may have interest in joining.

5. New ASERTTI Collaboratives and the DOE Upcoming \$6M Solicitation to the States

The upcoming \$6 million solicitation is due out in March 2001. At this time it is anticipated that along with the fuel cell and microturbine projects previously discussed, Florida and California will be submitting proposals. Additionally, state IOF work will also be submitted by ASERTTI members under this solicitation.

There is also a solicitation for universities only, in Energy Efficient Science. It is anticipated that the solicitation will be released this year for funding in FY2002.

6. Strengthening Collaborative Relationships in Energy RDD&D

a. National Laboratories

Jeff Harris, LBNL provided members with an overview of the National Laboratory system. The labs have an extensive history at the project level prior to the cooperative discussions with ASERTTI members.

1. Marcy Beck, LBNL discussed the Consortium for Electric Reliability Technology Solutions (CERTS) program. The purpose of CERTS is to research, develop and commercialize new methods, tools, and technology to protect and enhance the reliability of the US electric power system under the emerging competitive electricity market. Core research areas include:

reliability technology issues and needs assessments, real time system control, integration of distributed energy resources, and reliability and markets.

Summer 2001 activities are planned to include: software visualization tool for real time tracking and managing of grid activity, Area Control Monitoring tool that measures the extent to which a power system is meeting all of its needs with respect to contractual commitments, field demonstration of load as a reliability source, (tied to contract awarded under the demand responsive HVAC program element of the CEC's peak load demand reduction program).

2. Tom Butcher, Brookhaven National Laboratory updated the membership on the MARKAL-MACRO program. This is an integrated energy economy optimization modeling framework used to assess the least cost evolution of energy systems.
3. Marilyn Brown, ORNL provided the membership with information on ORNL's work in distributed generation. At the Gateway National Recreation Area there is a microturbine demonstration, initially funded by NYSERDA and other partners. The project demonstrates a CHP application using microturbines.

Marilyn also informed the membership of the Moisture Assessment of wall systems in Seattle, WA. This is an ORNL state partnership program with WSU that began with a collaborative proposal in 1998. The results will assist WSU and Seattle to direct construction toward more moisture tolerant designs.

4. Eldon Boes, NREL discussed the Bioenergy Initiative. This initiative will help power America by using biomass. By making biomass a viable market competitor the Bioenergy Initiative will strengthen US energy security, protect the environment, reduce greenhouse gas emissions, and revitalize rural America. Also discussed was the Chariton Valley Switchgrass Initiative.
5. Steve Hauser, PNNL, informed the membership of the status of Intelligent Diagnostic Prognostics, a new emerging business opportunity. The basic concept of this project uses software systems, modules, and sophisticated diagnostics and prognostics. PNNL is currently working with NYC Public Housing Authority with a pilot site at the Governor Smith Housing Project. A second site is planned for Edgemere Arverne Housing Project in Queens with 8 additional sites to be completed by 2005.

b. Associations

1. Steve Nadel, ACEEE discussed strengthening the collaborative relationship in RD&D. ACEEE is a non-profit research program, dedicated to advancing technologies, practices, programs and policy, and spans the boundary between

technology and policy makers. Current programs areas of interest are buildings, industry, policy, transportation, and energy efficiency. Opportunities for collaboration with ASERTTI members include: joint research projects, development of evaluation programs, and policy development to promote technology communication and adoption. In the past joint research projects have included areas of emerging technologies, energy guide labels, utility program/policy evaluations and databases.

Program policy is concentrating on market transformation programs, resource acquisition programs, combined heat and power, public benefits funds in RD&D, and green vehicles. National policy works includes working with DOE and EPA on budget decisions, tax credits for energy efficient technologies, CHP interconnect regulations, matching of public benefits funds and equipment efficiency standards.

2. David Nemetzow, Alliance to Save Energy's is by definition a collaboration, with members including environmental, research, and corporate entities. Although the Alliance does not "do" R&D, the Alliance does have programs that provide market transformation programs, public education programs, consumer education, and green schools programs.

The Alliance can provide to ASERTTI members assistance in working with legislators and other political officials, and keep the membership up to date with various programs.

7. Scenarios for a Clean Energy Future

Marilynn Brown, ORNL provided the membership with a briefing on scenarios for a clean energy future. This program was initiated in 1998 by the US DOE to identify and analyze policies that promote efficient and clean energy technologies to reduce CO₂ emissions and improve energy security and air quality. Results of the program were published in November 2000.

Conclusions of the programs are:

- Smart public policies can significantly reduce not only carbon dioxide emissions, but also air pollution, oil imports, and inefficiencies in energy production and use.
- The overall economic benefits of these policies appear to be comparable to their overall costs.
- Uncertainties in the CEF assessment are unlikely to alter these conclusions.

8. ASERTTI Member Programs

a. Florida Solar Energy Center

David Block, FSEC updated the membership on the five major program areas: buildings programs including performance standards and energy efficient

programs, solar thermal activities, photovoltaic programs, hydrogen programs, and education and training.

b. South Carolina Energy Institute

Larry Golan, SCIES described AgStar, one of four programs currently underway. Funded by NETL, the mission is to provide the research to develop the gas turbine of the 21st century. The role of the program is to increase US research applicable to gas turbine industry, to promote university interest and university-industry interaction, to foster rapid transition of research to application.

c. Northeast Utilities

Ken Galanto, Northeast Utilities updated the membership on the current programs. Overall the Northeast Utilities programs is a result of the State of Connecticut's recent restructuring legislation with funds collected through the Conservation charge on customer bills. The program funds innovative electric energy efficiency and environmentally friendly distributed resource RD&D projects. Projects must demonstrate substantial energy savings and have environmental and economic development attributes.

9. ASERTTI Associate Member Projects

a. Gas Technology Institute

Ron Edelstein, GTI described the current status of GTI. GRI and IGT recently merged forming GTI. This combination prevents duplication of GRI and IGT programs, opens new business opportunities, and reduces operating costs through administrative synergies and co-location. The merger also strengthens core business areas including: increased-efficiency residential/commercial equipment, industrial processes and combustion, distributed power generation, environmental research and gas operations.

GTI's is currently working on projects involving: Combustion R&D, Residential R&D, Safety R&D, Fuel Cell R&D, and Distributed Energy R&D. RD&C non-FERC product line is open to state energy agencies this year, with activities of mutual interest of consumers and industry.

There are many areas that provide strategic opportunities for state R&D agencies to become involved with GTI. Recommended next steps are: consider cofunding for joint state agency/DOE/GTI projects; consider membership in mutual funds or FERC projects; consider sponsoring research at the GTI performing lab; and joint education and training opportunities.

b. EPRI

Adriene Wright, EPRI updated the membership on the Electric Innovation Institute – a new public benefit organization for R&D collaboration. The Electric Innovation Institute was incorporated in December 2000. The Institute's mission is "to lead public/private collaboration for breakthroughs in technologies to meet

the needs of a growing world population for clean, efficient energy and the quality of life opportunities that electricity provides.” Technical platforms for the Institute are Consortium for Electric Infrastructure to Support a Digital Society (CEIDS); Advanced Clean Generation; Energy Efficiency; and Environment/Global Climate Change. The next steps include building brand awareness, refining technical platforms and projects, gain initial commitments from private and public sectors, selection of permanent board members and “activation” in August 2001.

c. Consortium for Energy Efficiency

Marc Hoffman, CEE presented a CEE status report to the membership. Recent accomplishments include: proven market acceptance of High Efficiency Clothes Washers, developed Residential and Commercial HVAC Quality Installation Specifications for Energy Efficiency, Coordination of national research and evaluation efforts for public benefit energy efficiency programs, and many others. Current project areas include residential, commercial, and public sectors. CEE offers partnering opportunities in emerging technologies, deployment research, and opportunity to leverage public benefit dollars.

d. Midwest Energy Efficiency Alliance

Alecia Ward, updated the membership on MEEA’s activities. Members include representatives from all areas of the market chain. MEEA is actively involved in the market transformation area using methodology that targets specific audiences, asks for a call to action, and uses market transformation with other tools to help transform the market.

10. Member Business Meeting

a. DOE MOU Executive Committee Meeting

Gunnar Walmet, NYSERDA updated the membership on the status of the DOE MOU. There is not a lot of new information. Gunnar requests for a one page summary of the status of the four sub-groups to take to the next meeting with DOE, tentatively scheduled for May 2001.

DOE realizes that the process is not working as originally hoped. Bill Raup, DOE, encouraged ASERTTI to create a priority list for DOE, work to get a quick consensus and then work on the longer term process.

Also discussed is the possibility of having a meeting between DOE and MOU partners to discuss the difficulties of solicitation process and how they could become more streamlined and less troublesome.

b. RDD&D Committee Report

Floyd Barwig, IEC updated the membership on RDD&D committee. The same issues as identified in the MOU area have come up to the RDD&D committee. The focus must change to what needs to be accomplished rather than program

overviews. ASERTTI members will need to step up to make programs happen, they will not happen on their own. Procurement and contractual issues are being looked at to try and re-engineer them to allow for easier use.

c. Membership Report

Mike DeAngelis, CEC and Sherry Benzmilller, ECW discussed ASERTTI membership. A committee will be formed to look at more actively pursuing members to ASERTTI. A list needs to be generated to what organization should be approached for membership. It will be beneficial for current members to contact potential members within their geographical area. John Morrison, AEC; Miriam Pye, NYSERDA; Mike DeAngelis, CEC; Sherry Benzmilller, ECW; and Jack White, ASERTTI will serve on the committee.

d. Consolidated Contracting for ASERTTI

Mark Hanson, ECW discussed the need for consolidated contracting. Without a consolidated contracting mechanism in place it is difficult for ASERTTI to enter into contracts with DOE and others. A contract manager with a good track record would be beneficial when working with DOE.

e. Treasurer's Report

Copies of current financials were distributed and summarized by Mark Hanson, Treasurer. The report will be changed to include members that pay only registration fees. Sherry Benzmilller's assistance in helping to prepare the report was acknowledged.

f. Chair's Report

Kristi Growdon, WSU and ASERTTI chair updated the membership. ASERTTI was incorporated as a 501(c)(3) not for profit corporation in June 2000. Ms. Growdon has accepted a new position at WSU and will step down as chair of ASERTTI at the conclusion of the meeting. She will continue to work with STEAB and encourages anyone interested in STEAB to join. Ms. Growdon, thanked Jeff Harris and Marcy Beck of LBNL for use of their facility for the ASERTTI meeting.

g. Adjournment

The meeting was adjourned at 11:55 a.m. on Friday, March 15, 2001. The next ASERTTI meeting is scheduled for October 10 – 12, 2001 in Chicago, Illinois. The University of Illinois at Chicago – Energy Resources Center will serve as host. The Winter 2002 will be held February 11 – 13, 2002 in Washington DC.