



## Reflections on 10 Years of IOF-WV

By Kathleen Cullen, IOF-WV Program Coordinator, WVU National Research Center for Coal & Energy

I can hardly believe it has been 10 years since IOF-WV began! It seems just like yesterday that WVU and the WVDO began working together on this enduring partnership.

In 1997, Denise Swink, Jeff Herholdt, and Carl had the idea of developing a state-level version of the DOE's national IOF program (now the Industrial Technologies Program). From that idea evolved IOF-WV's role of creating energy advantages for West Virginia industry. IOF-WV became recognized as a leader for being the first and one of the best state IOF programs nationwide.

Over the years, IOF-WV teams have developed numerous university-industry R&D projects and have provided energy-efficiency information to industry via the Update newsletter, annual symposia, best practices workshops, and the IOF-WV website. A key to sustaining the program has been the dedicated efforts of WVU faculty and students who work with industry to develop energy efficiency innovations and to implement best practices. Here are a few views on IOF-WV highlights:

**Larry Banta** - Creating of a forum for the exchange of ideas among disparate industries is unique (at least in this state) to IOF-WV. In typical industrial meetings, the attendees are usually all from one industry and its vendors. IOF meetings have representation from across the spectrum of energy-intensive industries, and many productive relationships have evolved from this interaction.

**Ever Barbero** - Facilitating participation of WV industry in many worthwhile projects at WVU and IOF-WV has been an effective vehicle to secure assistance for the traditional manufacturing sector industries in WV.

**Bob Creese** - Leading development of the Spent Foundry Beneficial Use Guidelines, enacted by the West Virginia Division of Environmental Protection.

**Bhaskaran (Gopala) Gopalakrishnan** - Working effectively with state and federal government agencies and industry to develop key partnerships is the heart of the program.

**Joe McNeel** - The WVDO's Wood Industry Assistance Program has been extremely important to the State's wood products industry.

**Ken Means** - Since 2001 over 185 students that have participated in the WVDO's Projects with Industry Program. The various designs and recommended improvements have the potential in saving hundreds of millions of BTUs of energy for the plants.

**Syd Peng** - Working with JH Fletcher & Co of Huntington, WV on development of a roof mapping system (MRGIS) using roof bolter drilling parameters.

**Richard Turton** - Investigating the potential for using modern IGCC technology to supply power, steam, and chemicals to a cluster of energy-intensive industries.

**Ed Sneckenberger** - The Glass Industry Group held the very first technical meeting by an IOF-WV industry group, and the Glass Industry Group demonstrated its Laser Glass Cutting Machine at the 1999 IOF-WV Symposium where Gov. Cecil Underwood was an observer.

**John Loth** - A new zinc pot roller bearing design allowed an order of magnitude increase in bearing life by simply changing its design and suspension. This idea was patented by Loth for WVU as U.S. Patent No: 7,040,482, "Bearing Life Extender for Conveyor Type or Zinc Pot Rollers," issued May 9 2006.

But what does the future hold for IOF-WV? If the last few years are any indication, energy will become even more important to energy-intensive manufacturing companies during the next 10 years. Goals of the IOF-WV team include continuing to develop partnership projects, helping companies reduce energy costs, and creating and implementing innovative research results.

Thank you for your support these past 10 years. We plan on growing as the needs of industry change and being here for another 10 years.

A Very Happy and Successful New Year from the IOF-WV team!

### EVENTS

**Business Registration and Licensing Seminar** sponsored by the West Virginia Small Business Development Center will be held January 10, 2007 at the WVU Chestnut Ridge Research Building, 886 Chestnut Ridge Road, Morgantown. For more information or to register, please call (304) 293-5839.

**IOF-WV Day at the Capitol** sponsored by Industries of the Future-WV and the WV Development Office will be held January 23, 2007 at the West Virginia Capitol building in Charleston, WV. For more information, contact Kathleen Cullen at (304) 293-2867 ext. 5426 or visit <http://iofwv.nrcce.wvu.edu>.

**A.B. Brooks Forestry Symposium** sponsored by the West Virginia Forestry Association will be held January 31-February 1, 2007 at the Charleston House Holiday Inn, in Charleston, West Virginia. For more information please call 1-888-372-9663.

**Polymer Composites Conference IV** sponsored by the West Virginia Department of Transportation, the Federal Highway Administration and the Constructed Facilities Center at WVU will be held March 20-22, 2007 at Lakeview Golf resort and Spa in Morgantown, WV. For more information, please call (304) 293-7608, or request a preliminary program at [CFC@mail.wvu.edu](mailto:CFC@mail.wvu.edu).

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## Co-Funding Opportunities for IOF-WV Research Teams

Announcement	Due Dates	Funding
National Science Foundation <b>Materials Processing and Manufacturing (MPM)</b> <a href="http://www.nsf.gov">www.nsf.gov</a>	Now Open (Request for Proposals) Full proposal window - January 15 to February 15, 2007 (Proposal Due)	Estimated Funding: TBD
National Science Foundation <b>Manufacturing Machines and Equipmenty</b> <a href="http://www.nsf.gov">www.nsf.gov</a>	Now Open (Request for Proposals) Full proposal window - January 15 to February 15, 2007 (Proposal Due)	Estimated Funding: TBD
National Science Foundation <b>Manufacturing Enterprise Systems (MES)</b> <a href="http://www.nsf.gov">www.nsf.gov</a>	Now Open (Request for Proposals) Full proposal window - January 15 to February 15, 2007 (Proposal Due)	Estimated Funding: TBD
National Science Foundation <b>Energy for Sustainability</b> <a href="http://www.nsf.gov">www.nsf.gov</a>	Now Open (Request for Proposals) Full proposal window - February 1 to March 1, 2007 (Proposal Due)	Estimated Funding: TBD
U.S. Department of Energy <b>Ethical, Legal, and Societal Implications (ELSI) of Research on Alternative Bioenergy Technologies, Synthetic Genomics, or Nanotechnologies</b> <a href="http://e-center.doe.gov">http://e-center.doe.gov</a>	Now Open (Request for Proposals) February 8, 2007 (Pre-Application Due) April 19, 2007 (Proposal Due)	\$1,000,000 for 5 to 9 awards expected for FY 2007

## IOF-WV Day at the Capitol

January 23, 2007

West Virginia Capitol, Charleston, WV.

Exhibit products, meet legislators, networking luncheon sponsored by the WVDO

To register contact Kathleen Cullen at (304) 293-2867 ext. 5426 or visit <http://iofwv.nrcce.wvu.edu>

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