



VIRGINIA MOUNTAIN SECTION NEWSLETTER

IEEE Region 3, Council 09, Section 65

September 2006

Thursday, September 21, Holiday Inn Hotel Roanoke Airport (former Clarion)
Joint Meeting with the Blue Ridge Section of the American Chemical Society

A New Tool for Improving Control of Fine Particle Emissions

Dr. John D. McKenna
ETS, Inc., Roanoke, VA

ABSTRACT

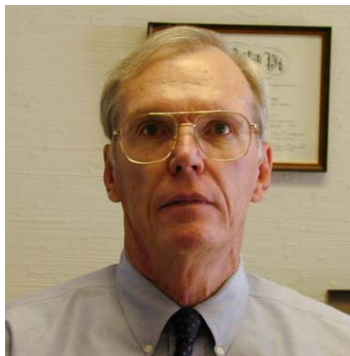
For most of the 20th Century QA/QC programs for filter fabrics and baghouse bags have consisted primarily of specifying and testing fabric strength and permeability. The key parameter, filtration performance, lacked a standard method and therefore was normally not part of most QA/QC programs.

In recent years, as part of EPA's Environmental Technology Verification (ETV) program, and in recognition of the impending PM 2.5 fine particle control legislation, a filtration test method and protocol was evolved from a European filtration testing device & procedure. Subsequently an ASTM method was formalized based on this ETV Baghouse Filtration Products test. Currently an ISO method is being developed largely based on this same method.

SPEAKER

John McKenna is the principal of ETS Inc. He is the author of numerous articles and a number of texts including the air pollution control section of Perry's Chem E. Handbook. John is a

chemical engineer (Manhattan College) with his entire career (40 plus years) spent in the field of pollution control with a special emphasis on baghouse technology. He designed, installed and operated the first baghouse on an industrial coal fired boiler. He has provided environmental courses and training in various parts of the world including Kazakhstan, Armenia, Taiwan, Japan, Brazil & the Canary Islands.



Dr. McKenna authored the Fabric Filter/Baghouse text along with Dr. Jim Turner and currently is writing a text on fine particle measurement and control. He is a founder (1973) and principal of ETS Inc. ETS specializes in air pollution control equipment testing, troubleshooting, training (online and in-person) & testimony (expert witness).

Date: Thursday September 21, 2006

Social: 6:30 PM

Dinner: 7:00 PM

Speaker: 8:00 PM

Cost: Members & Guests	\$ 15.00
Students	\$ 8.00

Reserve by **5 PM Monday Sept 18**
Dr. Jan Helge Bohn (540) 231-3276
<mailto:bohn@ieee.org>

Please specify number of attendees.

**Directions to
Holiday Inn Hotel Roanoke Airport
(formerly the Clarion)**

2727 Ferndale Drive NW
I581 Exit 3 Hershberger Rd West
1st Rt. onto Ordway Drive,
¼ mile, Rt. Into Parking Lot.

See following pages for

- Nominations for Section officers
- Establishment of Affinity Groups
- Honors and awards received by VMS members
- Job opening: Assistant Director, Wireless@Virginia Tech
- Next Meeting: October 19 in Blacksburg; Dr. Ralph Wyndrum, President, IEEE-USA

NOMINATIONS

Would you like to be more active in the operations of the IEEE Virginia Mountain Section (IEEE-VMS)?

Nominations are now being accepted for leadership positions within the IEEE-VMS, including Chair, Vice-Chair, and Secretary-Treasurer. If you are not interested in an officer position, you may want to consider serving as a "Member-at-Large" of the IEEE-VMS Executive Committee.

Please contact Shawn Addington (addingtonjs@vmi.edu), Chair, VMS Nominations Committee, for more information on any of these opportunities. All nominees must submit a brief (approximately 200 words) bio for inclusion in the IEEE-VMS ballot. Bios must be sent to addingtonjs@vmi.edu, and must be received no later than October 1 in order to be considered.

AFFINITY GROUPS

Ed Tuttle

IEEE colleagues we are trying to set up an IEEE Consultants Affinity Group to enable networking and possible sharing of expertise in our fields of interest. We need at least six (6) signers of a petition from locals who want to set up an Affinity Group in VMS. I am still affiliated with the Orlando (FL) Section and do some consulting in Florida. We could mutually benefit from a VMS Group.

Each IEEE- VMS member can join and have their business resume, possibly linked to the VMS site. For the record my areas of expertise are in Tech Transfer and Licensing, electro-mechanical devices, and in Robotics (see US Patent 4532757).

I joined IRE in 1948 and became a senior member of IEEE in 1966. I am a GE and also a Lockheed Martin retiree.

I also have been trying to establish a Life Seniors Affinity Group, with the same Petition requirements. I would like to use this announcement to confirm interest in a Life Member Group. We

have a number of GE retirees in the local area and we may have enough petitioners to get an Affinity Group Organized. The benefit for Life Members would be to keep abreast of their chosen fields and active in IEEE!

Please contact Ed Tuttle at tuttleone@earthlink.net, or at 540/977 4007, in Roanoke, for further information.

As a new feature, the Newsletter will now post job-openings from local firms and organizations that may be of interest to our members

JOB OPENING Assistant Director, Wireless@Virginia Tech

The Assistant Director is expected to make major contributions to the Center in the areas of grant development; opportunities analysis; IP marketing; industry and sponsored program development; development and implementation of a seminar series; and other initiatives that enable the Center to grow in scope and impact. The individual will have the responsibility to prepare, present, and update presentations, reports, and documents for multiple research sponsors and industrial affiliate members and cultivate partnerships with these funding sources, and will develop and update the Center's capabilities briefing to be used during presentations to potential sponsors and funding agencies. The individual will team with faculty members to identify and pursue new sponsored research thrusts and avenues of exploratory research. Qualifications include a Ph.D. in electrical engineering, computer engineering, physics, or a related discipline, but candidates with an M.S. in one of these disciplines and substantial experience as a successful researcher and/or administrator may be considered.

For further information see <http://wireless.vt.edu> or contact Professor Jeff Reed reedjh@vt.edu

CONGRATULATIONS

Amy Bell received a 2006 Outstanding Student Branch Advisor Award from the IEEE. She is one of only seven student branch advisors so honored by IEEE, which has more than 1,400 student chapters worldwide. Amy was nominated by the 307 members of the Virginia Tech branch, the fourteenth largest IEEE student chapter. This recognition is especially noteworthy in light of the fact that the 2005-2006 academic year was Amy's first as the Virginia Tech IEEE advisor. Winners of the advising awards were chosen for their commitment to the educational, professional and technical development of students. The winning advisors and their branches received cash awards from IEEE.

Virgilio Centeno was elevated to Senior Member in IEEE

NEXT MEETING

Hold the date: Thursday, October 19 at the Inn at Virginia Tech.

We are pleased to announce that Dr. Ralph W. Wyndrum, the President of IEEE-USA will be the speaker at our October meeting. Dr. Wyndrum will talk on "Improving the State of Engineering in the USA" and will address questions such as:

1. How can U.S. Engineers succeed in the new global environment?
2. Is engineering losing its value today?
3. What are specific IEEE/IEEE-USA programs to maintain U.S. Leadership in Innovation, including the Innovation Institute in Washington, DC?
4. What IEEE programs in the USA address the needs for pre-college education in STEM, and midcareer education for practicing engineers?

More information will be forthcoming in the October Newsletter, but please mark your calendar for this very timely and important talk.

IEEE LAUNCHES INTERNET TELEVISION

On 15 August, IEEE is launching the Beta release of IEEE.tv an internet-based broadcasting network that will produce and deliver prerecorded, special-interest programming for engineers and technologists. A collaborative effort of IEEE volunteers, members and staff across the organization, the new service will initially be available only to members only through the myIEEE web portal, (www.ieee.org/myieee). It will expand to provide select content intended for the general public starting in September.

IEEE.tv will feature original IEEE-produced content within a viewer that may in the future serve as a carrier for non-IEEE productions. Series include IEEE conference highlights, interviews with authors who publish books with IEEE, IEEE president-elect candidate debates, and introductions to new IEEE products. In September, general interest programs including those promoting careers in engineering and demonstrating new technology in everyday applications will be available to anyone who visits www.ieee.org/ieeetv. Individuals with questions can contact tv@ieee.org

SENIOR MEMBER UPGRADE PROGRAM

Becoming an IEEE Senior Member is one of the most important things that you can do as a Electrical or Computer Engineer. Senior Member status is a recognition by your peers of career achievement and contribution to the profession.

The IEEE has a special program each year to promote Senior Member upgrades. This program makes it easy to process a Senior Member application and it gives a financial incentive of a \$10 rebate to the Section for every new Senior Member that is approved.

To provide further incentives for Region 3 Senior Member growth, a Region 3 Section Senior Member Contest has been announced. The Section that gets the most new Senior Members approved this year will win \$100. Also the Section that gets the most new Senior Members approved (as a percentage of their Section Member count not including Students) will win \$100.

IEEE has given Region 3 a goal of 209 new Senior Members for 2006. As of June, 95 new Senior Members have been approved. That's only 45.5% of the goal.

November 3 is the absolute deadline for the submission of our nominations. Please don't wait until the last minute since there are only three more Admission & Advancement Committee meetings left this year.

If it is at least 10 years since you received your undergraduate degree, and you have had significant engineering responsibilities and accomplishments in the last five years, you likely qualify for senior membership. Please consider upgrading your membership, and remember to mention VMS in your application so we get the appropriate credit and rebate.

VMS Membership (Aug. 2006)

Associate Members	15
Affiliate Members	43
Members	278
Life Members	22
Senior Members	71
Life Senior Members	16
Fellows	15
Life Fellows	11
Student Members	196

Not counting Students, Associates, and Affiliates we have 413 members of whom 49 are in the various Life categories. Of these 413, 300 are Members or Life Members, 87 are Senior Members or Life Senior Members, and 26 are Fellows or Life Fellows

2006 VMS OFFICERS

Chairman: Jim Squire
<mailto:squirejc@vmi.edu> 464-7548

Vice Chairman: Jan Helge Bohn
[mail to:bohn@ieee.org](mailto:bohn@ieee.org) 231-3276

Sec./Treasurer: Wilbur Dale
[mail to:dalewn@vmi.edu](mailto:dalewn@vmi.edu)

VMS EXECUTIVE COMMITTEE

Chris Bonadeo

cbonadeo@primephotonics.com

David Geer dgeer@ieee.org

F. Gail Gray fggray@vt.edu

Patrick Schaumont schaum@vt.edu

Junior Past Chairman: Cy Harbourt
<mailto:cdharbourt@ieee.org>

VMS Chapter Chairs

Computer, Control Systems, & Industrial Electronics:
Sandeep Shukla shukla@vt.edu

COMMITTEE CHAIRS

Student Activities: Dave Livingston
<mailto:d.livingston@ieee.org>

Virginia Council: Jan Helge Bohn
[mail to:bohn@ieee.org](mailto:bohn@ieee.org)

PACE & Membership Development:
Howard Moses
hjmoses2@adelphia.net

Awards & Nominations:
Cy Harbourt
<mailto:cdharbourt@ieee.org>

NEWSLETTER

Editor: Ira Jacobs
<mailto:ijacobs@vt.edu> 231-5620

Contact Newsletter Editor to be added to the VMS listserv

WEBSITE

<http://www.ewh.ieee.org/r3/virginia-mountain>

Webmaster: Chris Bonadeo
cbonadeo@primephotonics.com