TSC Annual Joint Dinner Meeting

Tuesday – March 13, 2018

Dr. Liesl Folks

Connected & Autonomous Vehicles – Are We Ready??

Dr. Liesl Folks is Dean of the School of Engineering & Applied Sciences and a Professor of Electrical Engineering at the University of Buffalo. She holds a BSc (Hons) and a PhD, both in Physics, from The University of Western Australia, as well as an MBA from Cornell. Prior to joining UB in 2012, Dr. Folks spent 16 years in research & development in the magnetic data storage industry in Silicon Valley, working for IBM, Hitachi and Western Digital. An internationally recognized expert in nanotechnology and magnetism, Dr. Folks holds 14 U.S. patents and is the author of more than 50 peer-reviewed papers that have attracted more than 10,000 citations. Her research is in the fields of magnetic materials and devices, nanoscale metrology, and spin-electronic devices. She was the President of the IEEE Magnetics Society for 2013 - 2014, and served in 2012 on the congressionally mandated panel for the Triennial Review of the National Nanotechnology Initiative, facilitated by the National Academy of Sciences.

DINNER LOCATION: Salvatore’s Italian Gardens
6461 Transit Road  Depew, NY

TIME: Social Hour 5:30 p.m. (cash bar)
Dinner 6:30 p.m.
Dinner Choices Chicken Parmigiana, Roasted Vegetables with Mediterranean Orzo, Poached Salmon, Prime Rib (10 oz.)
Presentation will follow dinner

COST: Members $25.00
Students $10.00

RESERVATIONS: Please make reservations by March 6, 2018
Contact Chuck Lafountain: clafountain@diamondsaw.com

Feel free to post this newsletter for your coworkers!
Chapter Update

Our March meeting is ASM Buffalo's big opportunity to socialize, mix, converse, argue, pontificate, and even engage with fellow engineers from bunches of other Western New York engineering professional societies. It’s the annual Technical Societies Council of the Niagara Frontier joint meeting, and Liesl Folks of UB will be talking about network connected and autonomous vehicles. She's Dean of the School of Engineering at UB and is a past President of IEEE Magnetics Society, so she should have a lot of relevant stuff to say; I’m looking forward to this, AND the Poached Salmon at Salvatore’s! (I figure if I can’t get a rocket belt, at least I want my car to drive itself.)

Oh, our traditional April Education Meeting will be held in May this year- May 3rd with Paul Fallon of the MacSmiths, McMaster University’s group of student blade smiths. They participated in last year’s TMS Blade Making Challenge, and Paul will be coming by to impress us and the high school students we invite with this cool aspect of metallurgical learning.

I hope to see you there! Let Chuck Lafountain at Diamond Saw know if you’re coming to the TSC meeting, and your dinner choice!

Co-Chair
Lee Gearhart

---

**Buffalo Chapter Officers and Directors**

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
<th>Phone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chair</td>
<td>Renee Lueke</td>
<td>716-446-2315</td>
<td><a href="mailto:Renee.Lueke@zodiacaerospace.com">Renee.Lueke@zodiacaerospace.com</a></td>
</tr>
<tr>
<td>Co-Chair/Program</td>
<td>Lee Gearhart</td>
<td>716-687-4475</td>
<td><a href="mailto:lgearhart@moog.com">lgearhart@moog.com</a></td>
</tr>
<tr>
<td>Treasurer</td>
<td>Herb Wilber</td>
<td>716-833-6756</td>
<td><a href="mailto:hmwilber3@verizon.net">hmwilber3@verizon.net</a></td>
</tr>
<tr>
<td>Secretary</td>
<td>Mary Jane Hornung</td>
<td>716-560-8769</td>
<td><a href="mailto:maryjane.hornung@cobham.com">maryjane.hornung@cobham.com</a></td>
</tr>
<tr>
<td>Director</td>
<td>Kira Berent</td>
<td>719-446-2299</td>
<td><a href="mailto:Kira.Berent@materion.com">Kira.Berent@materion.com</a></td>
</tr>
<tr>
<td>Director</td>
<td>Tom Herdlein</td>
<td>716-446-5771</td>
<td><a href="mailto:Thomas.Herdlein@materion.com">Thomas.Herdlein@materion.com</a></td>
</tr>
<tr>
<td>Director</td>
<td>Tim Kosto</td>
<td>716-439-6570</td>
<td><a href="mailto:tjkosto@gmail.com">tjkosto@gmail.com</a></td>
</tr>
<tr>
<td>Director</td>
<td>Phil Aronica</td>
<td>716-282-6950</td>
<td><a href="mailto:phil@metlabcorp.com">phil@metlabcorp.com</a></td>
</tr>
<tr>
<td>Director</td>
<td>Jayne Spanos</td>
<td>716-446-2269</td>
<td><a href="mailto:jayne.spanos@materion.com">jayne.spanos@materion.com</a></td>
</tr>
<tr>
<td>Director</td>
<td>Stan Biernat</td>
<td>716-805-2285</td>
<td><a href="mailto:sbiernat@moog.com">sbiernat@moog.com</a></td>
</tr>
<tr>
<td>Director</td>
<td>Tim Gelnett</td>
<td>716-542-5552</td>
<td><a href="mailto:tim@nsm-ny.com">tim@nsm-ny.com</a></td>
</tr>
<tr>
<td>Director</td>
<td>Chuck Lafountain</td>
<td>716-496-7417</td>
<td><a href="mailto:clafountain@diamondsaw.com">clafountain@diamondsaw.com</a></td>
</tr>
<tr>
<td>Director/Web Page</td>
<td>Peter Witting</td>
<td>716-276-9920</td>
<td><a href="mailto:pwitting@harperintl.com">pwitting@harperintl.com</a></td>
</tr>
<tr>
<td>Director</td>
<td>Henry Kammerer</td>
<td>716-984-0635</td>
<td><a href="mailto:HGKmrer@aol.com">HGKmrer@aol.com</a></td>
</tr>
</tbody>
</table>
Support our 2017 – 2018 Advertisers!

Thank you to all our Advertisers!!! Your advertising dollars are used to maintain the viability of the Buffalo Chapter of ASM International. They are used to support chapter activities such as defraying dinner meeting costs, speaker awards and to fund scholarships for outstanding students. The Buffalo Chapter could not exist without your support!!!

We encourage our membership to patronize our advertisers.

Please make sure the e-mail address you have on file with ASM International Headquarters is current. Thank you!
Support our 2017 – 2018 Advertisers!

Ensuring Certainty

When it comes to your cutting, mounting, grinding, polishing, imaging and hardness testing solutions, Struers delivers...

Powerful Equipment
Intelligent Support
Outstanding Service

Contact Struers Account Representative
Claude Henry at 724.371.0814
claude.henry@struers.com

Solutions for your business @
Tel: 888.STRUERS
www.struers.com
Email: info@struers.com

ZEISS
Carl Zeiss
Authorized Dealer

---

Niagara Specialty Metals

www.nsm-ny.com
(716)542-5552
12600 Clarence Center Rd, Akron, NY

Robert Shabala, President bob@nsm-ny.com
Timothy Gelnott, Vice President tim@nsm-ny.com
Jeff Rich, Sales Manager jeff@nsm-ny.com

Niagara Specialty Metals is a manufacturer of hot rolled sheet and plate. We stock several grades of alloyed steel for immediate production. We also process customer owned material by hot rolling, flattening, cutting and heat treating.

We specialize in custom sizes and fast deliveries for any size order. Visit our website at nsm-ny.com for a complete list of grades and services as well as pricing.

---
Support our 2017 – 2018 Advertisers!

BROOK ANCO

PRECISION MEASURING SYSTEMS & MACHINE TOOLS SINCE 1958
7536 WEST MURRAY DRIVE
CICERO, NY 13039
WWW.BROOKANCO.COM
800-388-7566
315-288-4992

thermo scientific

ARL easySpark

Revealing the power of metals analysis
The new Thermo Scientific™ ARL easySpark™ benchtop metals analyzer is designed to meet the challenges and demands of small to medium-sized metal manufacturers that need high-quality and cost-effective OES analyses. With its unique multi-grating/CCD based optical design, the ARL easySpark provides full elemental coverage, optimal resolution and stability.

Find out more at thermofisher.com/easyspark
Support our 2017 – 2018 Advertisers!

QUALITY PRODUCTS FOR METALLOGRAPHIC SAMPLE PREPARATION & ANALYSIS

- All Equipment Made in USA
- Software & Design Updates
- Sturdy RIM Covers
- Powerful New Motors

TechPress 3™ Mounting Press

PowerCut 10x™ Abrasive Cut-Off Saw

Craig McMillan is your Product Application Specialist and is available for on-site demonstrations.
Please contact Craig at:
(330) 391-8257
csmcmillan@alliedhightech.com

Precision Scale & Balance
(800) 634-3008
www.scaleandbalance.com

INDUSTRIAL & LABORATORY
Sales - Service - Rentals - Design
Serving the Northeast & Mid-Atlantic US

CALIBRATIONS FOR ALL YOUR MEASUREMENT NEEDS...
- Scales & Balances • Test Weights • Temperature
- Volumetric / Liquid Handling • Torque Products
- Mass Flow • Dimensional • Other Lab Equipment

Precision Quality Service
ISO/IEC 17025 Accredited

NIAGARA SCIENTIFIC PRODUCTS
www.niagarasci.com
Call (855) 677-4522
For Laboratory Equipment, Supplies & Chemicals

140 Rotech Drive • Lancaster, NY 14086

Carbide Tipped for specialty applications
Bi-Metal; Matrix, M42 and M51
Jigs, Recips and Hacksaw blades

Manufactured in the USA by:
Diamond Saw Works, Inc.
12290 Olean Road
Chaffee, NY 14030
www.diamondsaw.com
www.sterlingsawblades.com

Please Contact:
Brian Clark
General Sales Manager
Chaffee, NY 14030
716-496-7417
800-828-1180
Support our 2017 – 2018 Advertisers!

Not Just Data, KNOWLEDGE

Accredited, Full Service Materials Testing Labs with a Dedicated Staff of Scientists, Engineers, Chemists, Lab and Support Personnel

- Mechanical Testing
- Corrosion Testing
- Failure Analysis
- Fatigue Testing
- Chemical Analysis
- Metallurgical Evaluation
- Coating & Plating Evaluation
- Polymer & Composite Testing

CONCISE REPORTS - QUICK TURNAROUND
SUPERIOR CUSTOMER SERVICE

Lansing, NY
Louisville, KY
Portland, OR
Singapore
Suzhou

1.888.464.8422 :: www.imrtest.com
Support our 2017 – 2018 Advertisers!

ADVERTISING SPACE IS STILL AVAILABLE. IF YOU ARE INTERESTED IN PLACING AN AD, PLEASE CONTACT TIM GELNETT TIM@NSM-NY.COM

Where things are put into focus.

BARON OPTICAL SERVICES
COMPLETE MICROSCOPE SERVICE & SALES

JACK BARON
Cell 716-235-0594
Phone 716-822-1816
Fax 716-822-1244
cboptical@aol.com

ADVERTISING SPACE IS STILL AVAILABLE. IF YOU ARE INTERESTED IN PLACING AN AD, PLEASE CONTACT TIM GELNETT TIM@NSM-NY.COM

EXCELERATE your Furnace & Profit with Si-SiC Radiant Tubes

+25% more production

SEX
ASK US HOW

Composite Radiant Tubes

Phone: 716-537-2270
www.inexinc.net • inex@inexinc.net

ISO 9001 CERTIFIED

VAL-KRO
Industrial Plating, Inc.
SURFACE FINISHING SPECIALISTS
- Electroless Nickel Coatings
- Anodizing (Type II)
- Hardcoat Anodizing (Type III)
- Chem Film (Alodine)

P: 716.694.5001 • F: 716.694.5003
359 River Road • North Tonawanda, NY 14120
www.valkro.com • information@valkro.com • Since 1960

PELLETS LLC
FIRST IN CUT WIRE SHOT
ISO 9001 Certified
WNY's Most Comprehensive Supplier of Blasting, Peening & Cleaning Abrasives, Blast Cabinets/Roobs and Repair Parts for Industry.
WAREHOUSE PRICED / LOCAL DELIVERY AVAILABLE

Since 1948 • 716.693.1750 • pelletsllc.com
63 Industrial Dr., North Tonawanda, N.Y. 14120
Below are the meetings tentatively planned for the upcoming program year.

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>September 14, 2017</td>
<td>Tour of Taylor Devices</td>
</tr>
<tr>
<td></td>
<td>90 Taylor Drive</td>
</tr>
<tr>
<td></td>
<td>North Tonawanda, NY 14120</td>
</tr>
<tr>
<td></td>
<td><em>World Leader in innovative shock and vibration control since 1955</em></td>
</tr>
<tr>
<td>October 12, 2017</td>
<td>Speaker: Dr. Dennis Harwig</td>
</tr>
<tr>
<td></td>
<td>LIFT (Lightweight Innovations for Tomorrow)</td>
</tr>
<tr>
<td>November 15, 2017</td>
<td>Advertiser Appreciation Night</td>
</tr>
<tr>
<td></td>
<td><strong>Speaker:</strong> John Laurence Busch</td>
</tr>
<tr>
<td></td>
<td><strong>Topic:</strong> “Engineer’s Presentation: Building the First Steamship in History”</td>
</tr>
<tr>
<td>February 2018</td>
<td>Speaker: Morteza Najjari</td>
</tr>
<tr>
<td></td>
<td>Sentient Science</td>
</tr>
<tr>
<td></td>
<td>Sentient models the microstructure of critical components in physical assets to predict failure initiation and to identify life extension actions.</td>
</tr>
<tr>
<td>March 13, 2018</td>
<td>Technical Societies Council Meeting</td>
</tr>
<tr>
<td>April 2018</td>
<td>TBD</td>
</tr>
<tr>
<td>May 3, 2018</td>
<td>Student Night</td>
</tr>
<tr>
<td></td>
<td><strong>Speaker:</strong> Paul Tallon</td>
</tr>
<tr>
<td></td>
<td><strong>Topic:</strong> The forging, heat treating and quality control of amateur sword making</td>
</tr>
<tr>
<td>June 2018</td>
<td>TBD</td>
</tr>
</tbody>
</table>

If you have an idea for a meeting or event please contact a Buffalo Chapter Officer or Director. All ideas are welcome!!!