

DALLAS SECTION AIChE JANUARY 28, 2014 EXECUTIVE COMMITTEE & GENERAL MEETING MINUTES

A Dallas Section AIChE Executive Committee Meeting and a General Meeting were held on January 28, 2014 at Two Guys From Italy restaurant in Dallas, TX.

A) EXECUTIVE COMMITTEE MEETING

The attendees were as follows:

Vice Chair:	Donald B. Miller
Secretary:	Frederic S. Eisen
Director:	Lacrisha (Lacy) Bishline
Director/Past Chair:	Nancy D. Garnett
Director:	Lee M. Vickers

The Chair, José Ramiro Rodríguez Perazza, and the Treasurer, Fernando J. Aguirre, were excused absences. The Chair gave his proxy to the Vice Chair. Director Elizabeth C. Hilbourn was also absent, and excused because of a business trip. The Secretary determined a quorum was present.

Below is a brief summary of the meeting.

- 1) Local Section Leadership Workshop – Don Miller and Lacy Bishline attended the last LSLW in April. Don continues to wait for Home Office (National) to reimburse him for his trip expenses. Home Office has requested he resubmit his documentation (for the third time). Lacy said she will let Home Office know she will not be submitting her expenses. The Chair and Director Lee Vickers are planning to attend the next LSLW meeting in New Orleans this April. A request for two travel grants was submitted.
- 2) Young Professionals Group – Director Lacy Bishline is scheduling another Happy Hour for Young Professionals for February 18th at Origin.
- 3) 2014 TSPE Engineers Week – Lacy Bishline was selected to be our Chemical Engineer of the Year recipient (for the TSPE Engineers Week Awards Banquet to be held during Engineers Week on February 27, 2014). The Section has purchased a table for 10. The Chair, Vice Chair, Secretary and Lacy with two guests are planning to attend.
- 4) Section Bylaws – Home Office has approved the Section Bylaws subject to a few changes. The Executive Board unanimously approved the changes.
- 5) Update on Programs – The talk for the February 25, 2014 meeting will be about a new flameless burner technology significantly reducing NOX emissions. A brewery tour is being looked into for a possible future meeting.

- 6) Treasurer's Report – The Treasurer's report was approved by the Executive Committee and presented to the members attending the meeting. \$10,614 is in the bank.
7) Prior Meeting Minutes – The November 19, 2013 meeting minutes were approved.

B) **GENERAL MEETING**

The meeting was held at Two Guys From Italy restaurant. Attendance at the general meeting was 17.

The Vice Chair made some welcoming remarks. The Treasurer's report was presented. The Vice Chair announced the February meeting talk will be on new flameless burner technology.

The speaker for the evening was Jason Ballengee, a Materials Scientist for sp3 Nanotech, LLC. His topic was "Nanodiamond & Tribology Applications".

In the 60's, a process was developed for relatively inexpensive fabrication of 5-10 nm diamond particles involving exploding TNT. However these nanoparticles agglomerated into large micron-sized aggregates which are extremely abrasive limiting their application to polishing compounds. More recently, new processing techniques have been developed for diamond disaggregation into -5 nm particles. At this level, abrasiveness is dramatically reduced and the nanodiamonds act more like ball bearings allowing their addition to lubricants as an anti-friction anti-wear additive. Disaggregate nanodiamond material properties and their addition to lube base oils was reviewed. Examples of nanodiamond tribological performance were given and the mechanisms of their enhanced lubrication properties were discussed.

The meeting was adjourned shortly after 9 PM.

Fred Eisen
Secretary

1/2/14