This Month's E-Newsletter Sponsored by:

Sauveur Award Night
Thursday, January 21, 2016 - 6:00 pm

Menu: Italian Meat Balls, Miniature Ravioli with Rosa, Jambalaya with Chicken and Sausage, Classic Caesar Salad, Glazed Baby Carrots, Scalloped Potatoes, and Apple Pie.

Social Hour: 6:00 - 7:00 p.m.  Dinner: 7:00 p.m.

Prices: Members & Guests: $35.00; Retirees: $24.00; Students: $15.00

Meeting Registration: PLEASE NOTE**: All reservations must contact Trevor Jones at 215-721-1502 ext 1220 or on our website at http://philadelphia.asminternational.org no later than 1:00 PM on the Tuesday before the meeting to guarantee dinner availability.

Meeting Cancellation Notification
In the event of cancellation of a meeting due to inclement weather, we will broadcast the news as part of KYW News radio's (1060AM) Storm Center Service. ASM cancellations will be specifically announced when KYW airs community cancellations at :20 and :50 past each hour during the afternoon of the day of the meeting. ASM's name will be specifically mentioned, so listen for the name rather than an organization number as is used for schools.

Meeting Cancellation Notification

SPEAKER: ANTONIOS ZAVALIANGOS
Professor of Materials Science & Engineering, Drexel University

TOPIC: The Manufacturing of Pharmaceutical Tablets
A “Simple” Task of Immense Complexity

The solid dosage form (tablet/pill) remains the most widely used form of pharmaceutical more than 170 years from the invention of the pharmaceutical press in 1844. Today, among the top 10 drugs in terms of monthly prescriptions, 9 are in tablet form. The simplicity of the concept of the tablet does not guarantee a problem free manufacturing method. In this presentation, the development of pharmaceuticals in solid dosage form will be discussed and the technological and regulatory issues related to the R&D of new products will be analyzed.

In the recent years, the FDA has put forward the concept of pharmaceutical Quality by Design (QbD), a systematic approach to pharmaceutical R&D that emphasizes product and process understanding and process control, based on sound science and quality risk management. Modern experimental characterization and computer simulations techniques that help decision making in the context of QbD will be presented. Emphasis will be placed on the similarities and differences with metal and ceramic processing industries.

Specific examples related to the effect of process parameters on the performance of tablets will be discussed. Issued related to "tablet image" (cosmetic defects that result in low consumer confidence), microcracking and its origin, and the deleterious effects of moisture on bilayer tablets will be explored. Finally, reference will be made to some of the persisting and difficult to resolve problems such as "sticking" (i.e. the disruptive tendency of some powders to stick to tooling) and process induced phase transformations.

Technical Chairperson: Dr. Richard Knight, Drexel University
Meeting Sponsors: Laboratory Testing Inc. & Robert Wooler Co.
Chairperson’s Message
January 2016

Happy New Year to all fellow ASM members! I hope everyone enjoyed their holiday season and is rested and ready to start another year. I know I am ready, but just not rested.

Our next meeting will be held on Thursday, January 21st at the Williamson's Restaurant. This meeting also serves as the Sauveur Award Night. I am excited to announce that this year's recipient is Antonios Zavaliangos. He will be speaking about the manufacturing of pharmaceutical tablets. In the presentation, the development of pharmaceuticals in solid dosage form will be discussed, as well as the technological and regulatory issues related to the R&D of new products will be analyzed.

I hope you can make it to the January meeting. These meetings are a great way to network with people in our materials industry. We are always trying to increase our membership and keep our members active in our chapter. Wishing you all a prosperous 2016!

Best Regards,
Jamie Jones
2015 – 2016 Chapter Chairperson

To ensure you receive your E-newsletter and yearbook: update your membership listing or your company listing by calling Membership Service, ASM International at 1-800-336-5152 or using the ASMI website at www.asminternational.org. This will permanently update your information. We depend on ASM International to receive our updated Chapter roster.

Welcome New Members...

Peter Falk                   Philadelphia Energy Solutions
Tabbetha A. Dobbins  Rowan University
Jackie Herman               PH Tool
Sean Lynch                  Philadelphia Energy Solutions
Mike Martin                 Laboratory Testing, Inc.
Michael McKinney
Mark Morton                 PH Tool
Lauren Nowicki             SRI International
Chris Rauch                PH Tool
Jason Tucker               Laboratory Testing, Inc.
Vicki Weaver
Ben A. Wolfgram            WE Automation

Check us out on Linked-In at: http://www.linkedin.com/groups?mostPopular=&gid=2897863
Check out our website at: http://philadelphia.asminternational.org

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2015- 2016 Upcoming Events...

1-21-16 Thursday         Sauveur Award Night, Topic: Manufacturing of Pharmaceutical Tablets, Williamson Banquet, Willow Grove, PA
2-18-16 Thursday         Continuing Education Night, Topic: Determination of the Degree of Thermal Exposure to Lower Head of 3-Mile Island Unit 2
3-17-16 Thursday         National Officers Night, Topic: Heavy Close Die Hydraulic Forging Presses, Williamson Banquet, Willow Grove, PA
4-21-16 Thursday         Sustaining Members Night, Topic: Sustaining Member Expo, Williamson Banquet, Willow Grove, PA
5-19-16 Thursday         Honors & Past Chairmen Night, Williamson Banquet, Willow Grove, PA

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ASM Liberty Bell Chapter Scholarships

In the academic year of 2015-2016, the Philadelphia Liberty Bell Chapter will provide three scholarships ($1500.00 each) to college engineering students who intend to pursue a career in Materials Science. All eligible students are encouraged to apply. One full-page essay (single spaced, Arial font, with font size between 11 and 12), stating his/her commitment to the Materials Science profession, will be required. Please contact Mrs. Pelin Lemons (e-mail: pelin.kansu1@gmail.com) for the application form and details.

The deadline for application is March 1, 2016.

Eligibility of Applicants:

a) All students pursuing a diploma program, an Associates Degree or Baccalaureate Degree at a Philadelphia area educational institution in Metallurgy and/or Materials Science are eligible for scholarship consideration. Philadelphia area educational institutions are defined as those physically located in Philadelphia, Montgomery, Bucks, Delaware, and Chester Counties in Pennsylvania; and Burlington, Camden, and Gloucester Counties in New Jersey.

b) The children of Philadelphia Chapter ASM Members who are pursuing a diploma program, an Associates Degree, or a Baccalaureate Degree in Metallurgy and/or Materials Science at any accredited institution, including those outside of the defined geographical area, also are eligible for consideration.

c) Students whose residence is established in the counties noted in Section 3(a), who are pursuing a diploma program, an Associates Degree, or a Baccalaureate Degree in Metallurgy and/or Materials Science at any accredited institution, including those outside of the defined geographical area, also are eligible for consideration.

Type or print neatly in black or blue ink -

1. (circle one) Miss Mrs. Ms. Mr. Name: __________________________________________________________________________

Home Address: __________________________________________________________________________________________________________

City/State/Zip Code: __________________________________________________ Home Phone Number: (  )________________________

Parent an ASM - Philadelphia Chapter - Member? Yes_____ No______ If “Yes”, Name: ________________________________________________

2. College or University: _____________________________________________________

Campus Address: __________________________________________________________________________________________________________

City/State/Zip Code: ____________________________________________________ Campus Phone Number: ( )___________________________

Expected Graduation Date and Degree: _____________________________________

Major (including option if applicable): ______________________________________

3. Cumulative grade point average and basis (e.g. 3.5/4.0): _______________________

4. Employment experience (attach resume if applicable): _________________________________________________________________________

5. A personal essay (on separate sheet) describing special achievements, honors, and recognitions, background of interest in metallurgy/materials, interdisciplinary skills/interest and financial need. Essay should be no longer than two typewritten pages.

A copy of resume should be included in the application.

6. Name: ___________________________________ ________ Date: _____________________

7. DEADLINE: Applications must be received by March 1, 2016. Send application and attachments as a Word or Adobe Pdf file to:

Mrs. Pelin Lemons, ASM Secretary and Scholarship Chairman, John Matthey, 2001 Nolte Dr., Paulsboro, NJ 08066 Phone: 856-384-7097

Email: pelin.kansu1@gmail.com

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