BCCE2018: Golden Nuggets for Tuesday
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Chemical Education is GOLDEN
25th Biennial Conference on Chemical Education
University of Notre Dame, July 29-August 2, 2018

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Tuesday, July 31st
Scattered Thunderstorms - High 79 °F Low 63°F

Plenary Session
Challenging Binary Thinking in STEM Education
101 DeBartolo Hall
11:15 am - 12:15 pm
Dr. Jacob Clark Blickenstaff has had a life-long passion for science education. He has had the experience as a classroom teacher, teacher educator, science education professor, program manager, and grant writer. His interests include identifying new avenues to help science teachers break through socio-economic, ethnic and gender barriers in their teaching to help all students have access to high quality science education. He champions that the under-representation of women and minorities in science is a critical issue for our nation.

In his most recent positions he leverages networks of professional development providers, informal educators, state officials, and business supporters to provide research-based professional development to teachers and teacher leaders. As a trained physicist, he has worked with the American Physical Society to bring physicists and physics education researchers together with teachers and teacher candidates all across the US. With Washington State LASER, he has coordinated efforts across the state of Washington to implement the Next Generation Science Standards with fidelity.

Additionally, Dr. Blickenstaff has an unconventional role in promoting science education equity - as a movie critic. In "Blick on Flicks," a regular column in NSTA Reports, Dr. Blickenstaff helps turn "bad science" into teachable science for middle level and high school students. Blickenstaff reviews current movies and transforms Hollywood "bad science" into teachable science for middle school and high school students. He has critiqued films such as The Happening, Journey to the Center of the Earth, and even The Devil Wears Prada, and Twilight to help teachers engage young women in science. Available online in both text and podcast format, "Blick on Flicks" is published in NSTA WebNews at www.nsta.org/publications/bllickenstaff.aspx.

Room changes

For the remainder of the conference:

- Sessions in DeBartolo 201 are now in DeBartolo 102.
- Sessions in DeBartolo 202 are now in room DeBartolo 116.
Special Meeting

As announced at Monday's Plenary Session, Dr. Marya Lieberman has a need for additional collaborators for the PAD project: Do you have an HPLC with UV-Vis detector, a C18 column, and an interest in analysis of real-world samples?

Come to an information session on the Distributed Pharmaceutical Analysis Laboratory (DPAL)
When: Tuesday July 31, 11:30-12:30
Where: Room 251 Nieuwland Science Hall

The World Health Organization estimates that about 1 in ten medicines sold in low and middle income countries is substandard or falsified. Prof. Lieberman works with collaborators in Kenya, Malawi, Tanzania, and Bangladesh to collect medicine samples. We have thousands of samples in the cold room awaiting assay, and we want your help.

Here’s how it works:

1) Read the HPLC Methodology Manual, register your school on Open Science Framework (OSF) for data submission, and pick a product to analyze.

2) Most products can be run with a C18 column. You will need to provide your own columns, HPLC solvents, sample filters and vials, and HPLC reference standards. We send you expired dosage forms for spike-recovery testing and provide a template and standards for the necessary data.

3) Carry out system suitability testing using a USP method (30-40 injections, suitable for multi-week instrumental analysis lab or undergrad research project).

4) We ship you 20-30 samples for analysis (3-5 injections per sample, suitable for 1-2 period HPLC experiment by a whole class, or as a project for a chemistry club). Students upload their lab notebook pages and fill out a data sheet, plus keep a group control chart on OSF.

5) We assist in writing of reports for country regulatory agencies and other followup as needed.
**Coming up Wednesday...**

**Plenary Speaker**
(11:15 am - 12:15 pm, 101 DeBartolo Hall)
The Disappearing Spoon: And other true tales of Madness, Love, and the History of the World from the Periodic Table of the Elements.
Sam Kean
There will be a book signing after the session. Copies of Kean's books are available for purchase at the Hammes Bookstore.

**Facility Tours**
(1:00 pm - 1:45 pm)
Digital Visualization Theatre, Jordan Hall North
In Vivo Imaging Core, Histology Core, and Optical Microscopy Core, Galvin Hall Main Entrance
Undergraduate Science Teaching Facility, Jordan Hall South
Warren Family Research Center for Drug Discovery and Development, McCourtney Hall Lobby
AI D. Hyde and the Key Tones Bash

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**Additions, Corrections, Changes, and Withdrawals**

**Withdrawn**

**Tuesday**

**Wednesday**
BCCE1062. Do flipped classrooms and active learning environments work for HBCU general chemistry courses? M. Tourne

BCCE 1162. Non-visual ways to conduct acid base titrations by blind students. C. Supalo.

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**Monday Morning Fun Run**

Program Co-Chair Jim Parise couldn't wait for the fun to begin!
(7:30 pm - 11:00 pm, Duncan Student Center 7th Floor)

and more!

**Highlights from Monday's Plenary Speakers**

Program Co-Chair Jim Parise introduced the *What Would You Fight For?* session by talking about the connection between Notre Dame Football and chemistry.

Dr. Marya Lieberman (Notre Dame, Chemistry and Biochemistry) spoke to a full house about the use of paper analytical devices in the field to identify counterfeit drugs.

**Poster Session and Exhibits**
Dr. Ryan Roeder (Notre Dame, Aerospace and Mechanical Engineering) has designed gold nanoparticles to help diagnose breast cancer.

Dr. Paul Bohn (Notre Dame, Chemical and Biomedical Engineering) works in the fight against sepsis by designing new diagnostic technology.

Dr. Jennifer Tank (Notre Dame, Biology) uses chemistry to
solve issues with water quality in the Mississippi River Basin.

Photos courtesy of Steve Wietstock, Cate Reck, Jim Parise, and Jennifer Fishovitz

If you have photos you’d like to share to be featured in future newsletters, please email them to bcce2018@nd.edu or Tweet @2018BCCE #BCCE2018