



**AMERICAN INSTITUTE OF
CHEMICAL ENGINEERS**

CENTRAL CAROLINAS SECTION

February 20, 2017

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General Info:

Greetings to all our members! Our next meeting is scheduled for Tuesday, February 28, 2017 at the Open Kitchen Restaurant, 1318 W. Morehead St., Charlotte, NC 28208, (704) 375-7449, at 6:15 PM. The restaurant is located near the Bank of America stadium near downtown Charlotte, off of I-77. Directions are attached to the e-mail version, or contact G. Tyrian for additional directions. Our meeting begins at 6:15 PM, with dinner at 7:15 PM and the speaker beginning at 8:15 PM.

February 28, 2017 Meeting

We are proud to present Dr. Ravi Singh. Dr. Singh is a post-doctoral associate in the Department of Cancer Biology at Wake Forest University School of Medicine. This is an update of his previous talk to the section titled "Nanotechnology for Cancer Diagnosis and Therapy". Dr. Singh's research focuses on the production of nanotechnology-based, multifunctional entities that can diagnose cancer, deliver therapeutic agents, monitor cancer treatment, and will facilitate the translation of nanoparticle-based therapeutics from the lab to the clinic.

Dr. Singh's interdisciplinary research background combines aspects of biology, pharmaceuticals, and physics, bridging the nanotechnology-biomedicine divide. His current research involves the development of carbon nanotubes suitable for use in positron emission tomography (PET) for breast cancer diagnosis. Previously, Dr. Singh produced pioneering work in the area of carbon nanotube-mediated gene delivery, created a novel lipid-coated viral nanoparticle suitable for tumor-specific, systemic delivery, and has authored or co-authored 28 peer-reviewed research articles.

Dr. Singh received his B.A. in physics from Harvard University in 1995. He then spent eight years conducting research in viral and non-viral gene therapy at Weill Cornell Medical Center and Imperial College London before entering in graduate studies at the University of London where he earned his Ph.D. in Pharmaceutical Science in 2008.

Please RSVP to G. Tyrian by Feb 20 to allow us to give the restaurant a headcount for the meeting.

Other Business:

The National Council of Examiners for Engineering and Surveying (NCEES) has published a review manual for the Chemical Engineering Professional Engineering exam. If you did not receive Monica Mellinger's e-mail, AIChE is looking for its members to review and comment on the review manual. To enroll in the review process and obtain a copy of the draft handbook, you may connect to the following AIChE website:

<http://www.aiche.org/resources/careers/professional-engineering-licensure/pe-handbook-provide-input>

The AIChE website will provide directions for connecting to the NCEES site.

The Carolina-Piedmont ACS has their next meeting the same day as ours, on Tuesday February 28 at the Artisan Restaurant, Art Institute, 2110 Water Ridge Parkway. The speaker is Dr. Tom Theyson on "Why Research Died in the Chemical Industry and What Do We Do Now". Section members interested in attending this meeting can contact G Tyrian for contact information.

We are attempting to have a joint meeting with the ACS in March, possibly as a tour of one of the new microdistilleries in town. More details will be available at the meeting.

Please feel free to forward any meeting suggestions to me at gtyrian@cecinc.com.

SEE YOU AT THE MEETING