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**Event Summary: Spring 2010 Meeting 5: Mangan Inc. Engineering & Automation  
Specialists & NCSU-ISPE Alumni and Young Professionals**

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Mangan Inc. Engineering & Automation Specialists was host for a unique, hands-on and interactive ISPE meeting where students were introduced to the world of commissioning, qualification, validation and automation by circulating in groups on test and equipment stations set up in the Biomanufacturing Training & Education Center (BTEC) on the Centennial Campus of North Carolina State University. The meeting took place on Thursday April 15<sup>th</sup>, 2010 from 6pm-8pm. Headquartered in California with other locations in Texas, Colorado, and Georgia, Mangan Incorporated recently moved into a new location outside of Raleigh, North Carolina in March 2009. Many of our ISPE members had the chance to learn about the company and meet a handful of its employees at the BTEC/ISPE Career Fair that took place just two weeks before the meeting. As Mangan is always looking for validation specialists and engineers that have a good understanding of the biotech and biopharmaceutical process, the company was accepting resumes from student ISPE members at the event. An Impressive lineup of 9 Mangan employees attended, ranging from two recent NCSU graduates, Validation Specialists, Validation Engineers, Plant Engineers with over 10 years experience in the biopharmaceutical and oil/gas industry, as well as Director level employees. The full list of Mangan employee attendees is below:

- Jason Winfield, Regional Operations Director
- Tim Sells, Associate Director of Engineering
- Steve Harris, Project Manager
- Brian Burleson, Project Manager
- Shawn Klawitter, Plant Engineer
- Amanda Koperski, Validation Engineer II
- Ben Gurule, Validation Engineer
- Robert Lowery, Validation Specialist (NCSU Class of 2009)
- Derek Gallo, Validation Specialist (NCSU Class of 2009)



Eight of the Mangan Employees Who Attended the Event Pose In the BTEC Auditorium

In addition to Mangan, the executive board invited NCSU-ISPE alumni (who work at a wide range of companies such as Biogen Idec, Merck, Kelly Scientific, Novartis, Talecris, GSK, Yonkers Industries and more) to come to this meeting, which provided a large network pool for the students in attendance. In all, about 15 alumni (mostly young professionals who were involved in ISPE at NCSU in the past 2-4 years) attended. Because this was the final meeting of the year, the ISPE board wanted to provide a large networking opportunity for students who may have missed the ISPE career fair two weeks before. We believe it was successful in that there were a total of about two-dozen professionals from a range of companies in attendance. In all around 50 students showed up for the event.

The meeting was unique in that it was interactive with 5 “stations” set up around the BTEC Facility. After the introductions of the alumni in attendance and the Mangan Company introduction, all attendees were split in to 5 groups and spent about 20 minutes at each of the following stations.

1. Process Validation – Featuring a presentation on validation.
2. Equipment Qualification –Featuring a pressure vessel and the bioreactors behind them.
3. Automation – Featuring a “ladder logic” automation software demonstration with equipment.
4. Utilities – Featuring a presentation in the utilities area of the facility.
5. Networking – A station for group members to network and get to know each other



The Equipment Qualification Station in the Lobby of BTEC



The Automation Station in a BTEC Classroom



Mangan professionals talk with NCSU-ISPE members in the BTEC Lounge



NCSU alum Derek Gallo, Validation Specialist for Mangan, Inc, gives members a presentation on utilities systems in the utilities basement of BTEC