



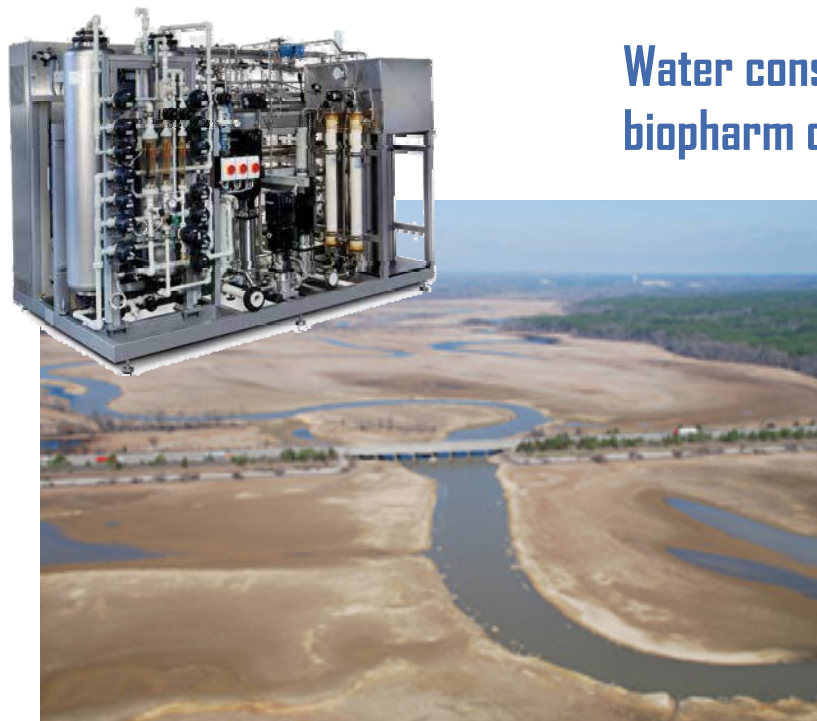
**Carolina-South
Atlantic Chapter**

ENGINEERING
PHARMACEUTICAL
INNOVATION

Presents

How Dry I Am...

Water conservation and reuse options for biopharm companies responding to North Carolina drought conditions.



**Thursday
April 10, 2008
3:00 pm—6:00 pm**

**\$40 Members
\$55 Guests
\$10 Students —
1st ten students free**

Join ISPE CASA to explore solutions for the pharmaceutical industry to meet the new North Carolina water restrictions. Presentations and panel discussion will be followed by networking with light buffet. Keynote speakers and topics planned are:

Norris Tolson — President, NC Biotechnology Center

Martin Rock — DMNI Professional Environmental

Greg Miller — Biomerieux

Jay Ankers — LifeTek Solutions; Chair, ASME BPE

Martin Holich — Merck

Jay Collie — Covidien; Chair, AIChE Eastern Carolina Section

Mike Fessler—Wyeth

Sponsor Opportunities Available

Location



**North Carolina
Biotechnology Center**

**15 T.W. Alexander Drive
Research Triangle Park, NC
27709
919-541-9366**



E. Norris Tolson
President and CEO
NC Biotechnology Center



An Edgecombe County native with a distinguished career of leadership in industry and state government, E. Norris Tolson took the helm of the Biotechnology Center July 2, 2007. Tolson has served on the Biotechnology Center's Board of Directors since 1997, as a member of the Executive Committee since 2001 and as Vice Chair since 2005. He was one of five co-conveners leading development of the recently completed North Carolina's Strategic Plan for Biofuels Leadership.

Service to North Carolina

Tolson held appointments as Secretary of the North Carolina Department of Transportation and the Department of Commerce and was charged with reorganizing both departments. Tolson also served in the North Carolina House of Representatives from 1994 until 1997 and represented parts of Nash, Edgecombe, Pitt and Wilson counties. Prior to his election to the General Assembly, Tolson worked at E.I. DuPont from 1965 until his retirement in 1993. He worked in various research, marketing and sales assignments in the company's agricultural products and electronics business for 28 years. He was assigned both domestic and international business responsibilities and lived in Europe for several years. In 1999, Tolson served as chair of the North Carolina Hurricane Floyd Relief Fund to help victims of Hurricane Floyd recover. Gov. Mike Easley appointed Tolson Secretary of Revenue in January 2001. There he was responsible for administering the state's tax laws and collecting taxes in a fair, impartial and uniform manner.

Background

Tolson graduated from North Carolina State University with a bachelor's degree in crop science and agribusiness in 1962. He also served in the U.S. Army Counter Intelligence Corps from 1963 to 1965. He is a certified lay speaker in the United Methodist Church and a member of the Lions Club and the American Legion. In addition to the Biotechnology Center board, he serves on the Board of Visitors at North Carolina State University and the Alumni Association Board. He also serves on the NCSU College of Education and Psychology Foundation and is a member of the College of Agricultural and Life Sciences Alumni Society. Prior to his Department of Revenue service, he was a member of the North Carolina Community College Board. Tolson and his wife, Betsy, have three children and five grandchildren.



Martin E. Rock, P.E., J.D., LEED-AP
President & Senior Principal
OMNI Professional Environmental Associates, P.A.



Martin E. Rock, P.E., J.D., is a registered professional engineer (PE) with an M.S. in Environmental Engineering, and he is also a licensed attorney with a *Juris Doctor* in law. He is a graduate of the University of Michigan (Ann Arbor), College of Engineering and of the Lumpkin School of Law at the University of Georgia (Athens). Rock serves as President & Senior Principal with OMNI Professional Environmental, based in Research Triangle Park, North Carolina. He served as President &

Board Chairman of the ISPE – Carolina-South Atlantic Chapter during 2006-07, he is a current Chapter Board member, and he has been a member of ISPE for over 10 years.



Jay Ankers
Principal at LifeTek Solutions, Inc
Director-Process Mechanical



Chair of ASME Bioprocessing Equipment Standard (ASME BPE) - Subcommittee on Design for Cleanability and Sterility. Recently elected to Chair of the ASME BPE

Mr. Ankers has eighteen years of active experience in biotech and pharmaceutical projects from concept through operations. Experience includes: project management, construction management, facilities turnover/commissioning, plant engineering, and CIP / SIP testing. Broad experience in management of overall facility and process design and layout, as well as process/utility equipment, piping, instrumentation, control systems, electrical, HVAC, civil engineering, and permitting. Project locations include US, Puerto Rico, and Singapore.

Martin Holich Jr., P.E., CEM has held the position of Site Energy Engineer with Merck & Co., Inc. in Wilson North Carolina for over six years. Since joining Merck he has been responsible for the development and installation of over \$3,000,000 worth of capital projects resulting over \$1,000,000 in annual energy savings. He also initiated the signing of an annual natural gas contract in 2004 that saved the company \$140,000. Additional responsibilities include the development and monitoring of the annual expense budget in Plant Engineering (currently \$10,000,000 including \$4,000,000 in utilities). He has fifteen years experience in energy management and has previously held positions at Johnson Controls, Fresenius Medical Care and Xenergy Inc. where he has identified, designed and managed energy savings projects in hundreds of facilities. He holds an MS degree in Mechanical Engineering as well as a BS degree in Mathematics from the University of Massachusetts at Amherst.



Jay Collie, PE
Senior Project Engineer
Covidien



Jay Collie, PE is a Senior Project Engineer with Covidien, and he has been with Covidien (formerly Tyco Healthcare Mallinckrodt) for a total of 10 years. Jay has experience in Production/Process Engineering, Production Management and Project Engineering. He also has 7 years experience in the oil and gas field, specifically in process modeling, while working in and around Houston, TX. In addition, Jay is the current Chair of the Eastern North Carolina Section of the AIChE. Jay holds a BS degree in Chemical Engineering from the University of Virginia and is a registered engineer in the state of North Carolina.



Carolina-South Atlantic Chapter

ENGINEERING
PHARMACEUTICAL
INNOVATION

How Dry I Am

Thursday, April 10, 2008

3:00 pm until 6:00 pm

Registration (One per individual)

ISPE Member #	
Name	
Company	
Address	
City/State/Zip	
Phone/Fax #s	
Email	

_____ **Member:** \$40.00 per person

_____ **Non-Member:** \$55.00 per person

_____ **Student:** \$10.00 per person **1st 10 FREE**

Sponsorship Opportunity

My company would like to sponsor this event (\$250.00)

PAY BY CHECK OR CREDIT CARD

CHECK AMEX VISA Master Card

Name on Credit Card _____

Credit Card # _____

CC Exp Date _____

Billing Address _____

Signature _____ Date _____

Email, fax, or mail this form to:

Cathy Rothey c/o ISPE Carolina-South Atlantic Chapter
605 Poole Drive, Garner, NC 27529

Phone: 919-861-1123 / Fax: 919-779-5642 / Email: ispe-casa@mgmt4u.com

Please feel free to make multiple copies of this flyer to post on your company bulletin board.

Directions to North Carolina Biotechnology Center

15 T.W. Alexander Drive

Research Triangle Park, NC 27709

From Raleigh-Durham International Airport (10-minute drive)

- Take Aviation Parkway to I-40.
- Take I-40 West toward Durham and Chapel Hill.
- Where I-40 splits in Research Triangle Park, take Exit 279-B, bearing right onto the Durham Freeway North (I47).
- Take the Alexander Drive exit (Exit 7) and turn left onto Alexander
- Go through one immediate traffic light, then turn left at the next light into the driveway opposite GlaxoSmithKline. Go up the hill and bear right, into the Biotechnology Center's driveway.

From Chapel Hill, Asheville and Greensboro and the West

- Take I-40 East toward Raleigh.
- After entering Research Triangle Park, take Exit 279-B to the Durham Freeway North (I47).
- On the Durham Freeway North, take the Alexander Drive exit (Exit 7) and turn left onto Alexander
- Go through one immediate traffic light and then turn left at the next light into the driveway opposite GlaxoSmithKline. Go up the hill and bear right, into the Biotechnology Center's driveway.

From Downtown Durham (10-minute drive)

- Drive on the Durham Freeway South (I47)
- Take the Alexander Drive exit (Exit 7) and turn right onto Alexander
- At the next traffic light, turn left into the driveway opposite GlaxoSmithKline. Go up the hill and bear right, into the Biotechnology Center's driveway.

From Durham Via U.S. 70 (20-minute drive)

- Take U.S. 70 East, toward Raleigh.
- Before reaching RDU International Airport, a sign will indicate Research Triangle Park to the right.
- Turn at the sign onto Alexander Drive and go for 4.5 miles. You will pass through five traffic lights
- At the sixth traffic light, turn left into the driveway opposite GlaxoSmithKline. Go up the hill and bear right, into the Biotechnology Center's driveway.

From Raleigh and Cary, the East via I-40

- Take I-40 West toward Chapel Hill.
- Where I-40 splits in Research Triangle Park, take Exit 279-B, bearing right onto the Durham Freeway North (I47).
- Take the Alexander Drive exit (Exit 7) and turn left onto Alexander Drive
- Go through one immediate traffic light, then turn left at the next light into the driveway opposite GlaxoSmithKline. Go up the hill and bear right, into the Biotechnology Center's driveway.

From Raleigh Via U.S. 70 (20-minute drive)

- Take U.S. 70 West (Glenwood Avenue), toward Durham.
- Just past RDU International Airport, a sign will indicate Research Triangle Park to the left.
- Turn at the sign onto Alexander Drive and go 4.5 miles. You will pass through five traffic lights.
- At the sixth traffic light, turn left into the driveway opposite GlaxoSmithKline. Go up the hill and bear right, into the Biotechnology Center's driveway.