



OCTOBER MEETING NOTICE

VIRGINIA SECTION AMERICAN CHEMICAL SOCIETY

Friday, October 28, 2022

**Biotech 8
506 E. Jackson Street
Richmond, Virginia**

RECEPTION AND TOURS OF THE BIOTECH 8 BUILDING: 6:00 PM
Biotech 8

PROGRAM: 7:00 PM
Biotech 8

HOST: Dr. Kai Donsbach
Chief Operating Officer, the Medicines for All Institute

SPEAKER: Dr. Nelu Grinberg
Editor-in-Chief, *Journal of Liquid Chromatography and Related Techniques*

TOPIC: “Optimization of Separation Using Kinetic Analysis and Subambient Temperature Chromatography”

NOTE: This will be a “hybrid” meeting. Members and guests who wish to meet and greet at Biotech 8 are invited to join the group at Biotech 8 in Richmond. The meeting will also be available virtually using the Zoom platform. See below to get the procedure for Zoom access.

Dr. Nelu Grinberg



Dr. Nelu Grinberg retired from Boehringer Ingelheim following an eminent career in research chemistry in the pharmaceutical industry. An internationally known expert in analytical chemistry, with an emphasis on chromatography, chiral separations and spectroscopy, he was a Distinguished Research Fellow in the Chemical Development Department at Boehringer Ingelheim Pharmaceuticals in Ridgefield, CT until January, 2017. Prior to this, he worked for sixteen years in the Analytical Department at Merck Research Laboratories in Rahway, NJ, where he was a Senior Research Fellow.

Dr. Grinberg has authored and co-authored over 160 publications, including articles and book chapters, and has lectured and conducted courses worldwide. He is currently Editor-in-Chief of the *Journal of Liquid Chromatography and Related Techniques*, Editor of the **Chromatographic Science** book series, and Co-editor of the **Advances in Chromatography** series and Editor of a new series **Supramolecular Chemistry**. He is also a member of the Board of the Connecticut Separation Science Council and was a recipient of a Koltoff Fellowship of the Hebrew University of Jerusalem and the Recipient of Honorary Member of University Senate of “Al. I. Cuza” University, Iasi, Romania.

Dr. Grinberg obtained his Ph.D. in Chemistry from the Technical University of Iasi in Romania. He conducted postdoctoral research with Professor Barry Karger at Northeastern University in Boston, Massachusetts, and with Professor Emanuel Gil-Av at The Weizmann Institute of Science in Rehovot, Israel.

“Optimization of Separation Using Kinetic Analysis and Subambient Temperature Chromatography”

The chromatographic analysis of labile analytes under typical normal or reversed-phase conditions may be a challenging task. The challenges arise when some on-column reactions lead to the formation of peaks which can mistakenly be regarded as impurities in the samples. The on-column reaction rate can be determined as a function of column temperature. Two examples of chromatographic optimization will be presented: one in the normal phase and the other in the reversed phase. In both cases, Arrhenius plots were constructed, and the activation energy and the optimum temperature were determined. Thus, the chromatographic separation is optimized using kinetic treatment.

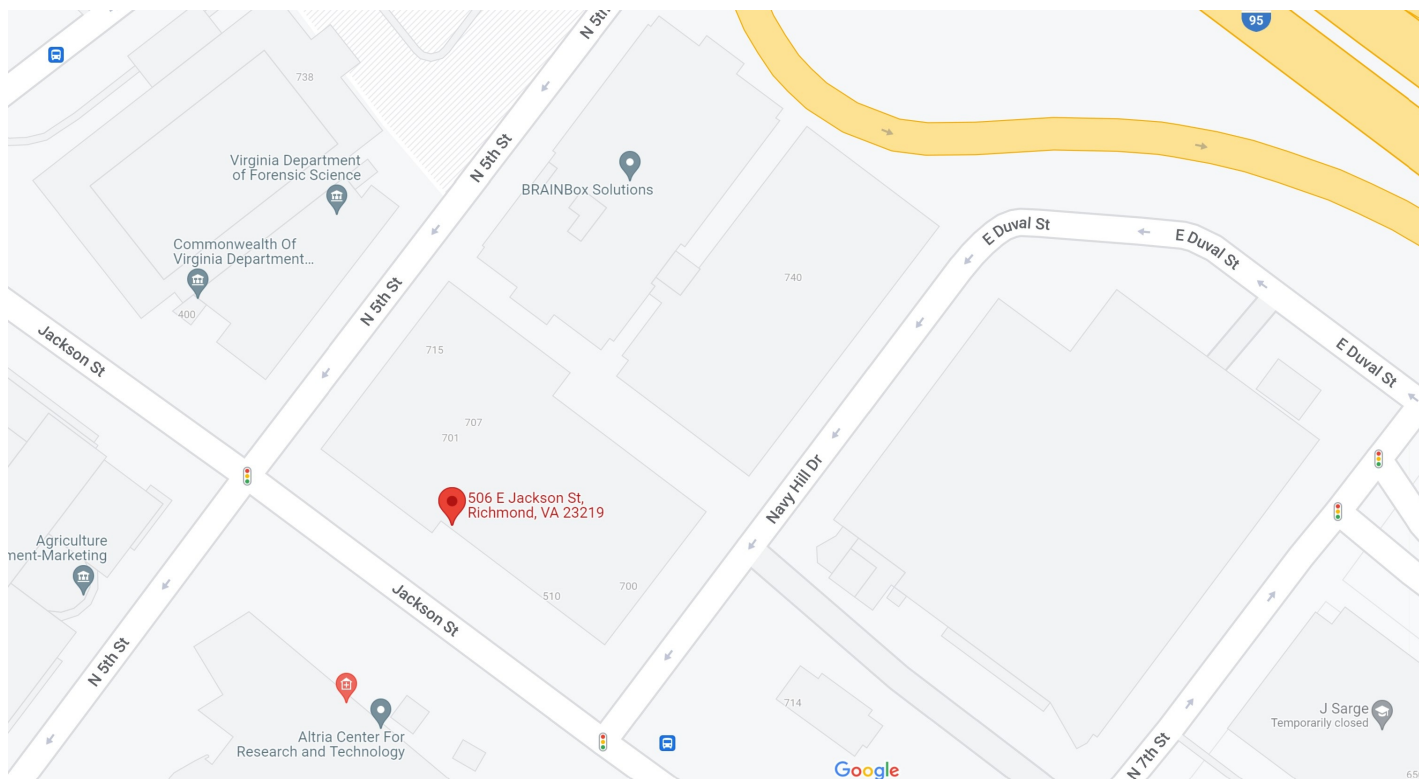
MAP AND DIRECTIONS TO BIOCHEM 8

COMING FROM THE SOUTH ON I-95

Use the right two lanes on I-95 for Exit 74C to merge onto US-250 W (E. Broad Street) toward US-33. Go 0.8 mile on Broad Street, then turn right onto N. 7th Street. Continue on 7th Street for about 0.5 mi. to E. Duval Street. Turn left onto Duval St. which will become Navy Hill Drive. Biotech 8 will be on the right. There is a parking deck on the left side of Navy Hill Drive for Biotech 8 and the Virginia Bio Tech Research Park. Look for signs for the ACS meeting.

COMING FROM THE NORTH ON I-95 OR FROM THE WEST ON I-64

Take I-64-95 through Richmond to the N. 3rd Street/Coliseum/Convention Ctr. exit. Go about 0.2 mile to E. Jackson Street. Turn left onto E. Jackson Street. Biotech 8 will be on the left. For parking, continue to Navy Hill Drive and turn left. There is a parking deck on the left side of Navy Hill Drive for Biotech 8 and the Virginia Bio Tech Research Park. Look for signs for the ACS meeting.



TOURS OF THE BIOTECH 8 BUILDING



Tours of some of the facilities housed in the Biotech 8 Building will be conducted during the “pre-program” time on October 28 (6:00 - 7:00 pm). **Dr. Kai Donsbach**, COO of the Medicines for All Institute, is coordinating the tours. In addition to the Medicines for All Institute, Biotech 8 houses facilities for Phlow Corporation, PPD, USP, and TCP GreenChem.