NORTH JERSEY CHROMATOGRAPHY GROUP (NJCG) and The Chromatography Forum of Delaware Valley (CFDV)

JOINT MEETING AT EAS 2026

THE LOW-HANGING FRUIT

Solvent Selection and Solvent Replacement

in Green Analytical Chemistry

Invited Speaker

Douglas Raynie, Ph.D.
South Dakota State University

Monday, November 16, 2026
FREE REGISTRATION: Link

Registration Ends Friday, November 13, 2026

Crown Plaza Princeton Conference Center
900 Scudders Mill Rd
Plainsboro, NJ 08536

SOCIAL HOUR 6:45 PM	Refreshments will be provided	PRESENTATION 7:00 PM

Sponsor Event: CFDV - Chromatography Forum of Delaware Valley

Douglas Raynie, Ph.D.
South Dakota State University

Abstract

Solvents are among the highest-volume chemicals used in analytical laboratories and may offer a practical starting point for greener methods. This presentation will explore two approaches: selecting more suitable aqueous or organic solvents, and evaluating less conventional alternatives such as supercritical fluids, ionic liquids, natural products and deep eutectic solvents. Examples will address extraction-method equivalency, greener solvent replacement, and evaluation of analytical methods from environmental and human-health perspectives

Biography

Dr. Douglas Raynie is Professor Emeritus and Department Head Emeritus in the Department of Chemistry, Biochemistry and Physics at South Dakota State University. Prior to joining SDSU, he was employed for eleven years as a Senior Scientist at Procter and Gamble's Corporate Research Division. He earned his Ph.D. at Brigham Young University under the direction of Dr. Milton L. Lee. Dr. Raynie's research interests include high-resolution chromatography (including high-temperature LC and SFC), chromatographic sample preparation (including ASE, SFE, SPME, and SPE), chromatography theory, green chemistry, and problem-based learning in analytical chemistry. He is recipient of the L.S. Palmer Award from the Minnesota Chromatography Forum and was long-time author of the Sample Preparation Perspectives column for LC/GC. He is on the advisory board of the Green Chemistry Commitment and received the ACS Committee on Environmental Improvement Award for Incorporation of Sustainability in Chemistry Education. In 2025, he served as a Fulbright Specialist at the Research Institute for Medicinal and Aromatic Plants at Beni Suef University in Egypt.