Department of Chemistry The Western University of Ontario

invites you to

THE PAUL de MAYO AWARD LECTURE

Postdotcral Fellow at Kay Laboratory at University of Thoreator's GenetiBiochemistry, Chemis(r)-.1 0mi5w 19.59 0 Td ()2.9 0

Breaking the Barrier: NMR Spectroscopy of Molecular Machines a t One Mega -Dalton and Beyond

Cells employ macromolecular assemblies less molecular machines, to perform a myriad of biological tasks. Gaining an atdeniel understanding of the mode of operation of these machines represents the "holy grail" of structural biology. NMR spectroscopy is a powerful method for studying the structural and motional properties of proteins with molecular weights on the order of 50 kDa. However, NMR studies of molecular maatvieween elusive due to their extreme masses Darltogra-and beyond). This lecture outlines how the TIREDBY optimized spectroscopy) (transverse relaxation methodology breaks this barrier and enables NMR investigations of protein systems with molecular weights approaching one megaton. Advances in NMR pulse sequences and biosynthetic production of isotopically labeled proteins will be discussed. It will be show emerging technique contributes to an understanding of the regulation of the bacterial protein degradation r

Monday, May 16, 2016 at 2:30 pm Room 0153, Biological & Geological Sciences Building

If you require information in an alternate format, or if any other arrangements can make this event accessible to you,

Campus accessibility maptapt//www.accessibility.u27 0 Td [3-7.7(y6)0.5().3(y6)0.5().3(y6.5().3(t) m).3c5edhi