学术报告

题　　目：Spectrometric evaluation of bonding and electronic dynamics under multifield perturbation

报 告 人：孙长庆 教授 (新加坡南洋理工大学)

时　　间：2018年4月23日 (周一) 下午 14:30

地　　点：固体所三号楼221会议室

报告摘要：Bonds, electrons and phonons respond to atomic, strain, compression, etc., to mediate the structure and property of substance. Fine-resolution detection and consistently insight into the stimulus-bond-property correlation become therefore increasingly important. With the aid of the bond relaxation theory and electron and phonon spectrometrics, we can gain the atomistic, local, quantitative, and straightforward information on the bond length, bond energy, binding energy density, atomic cohesive energy, and electronic entrapment and polarization of solid and liquid substance under various perturbations. Progress may exemplify an alternative way of thinking about and mediating materials performance from the perspective of bonding and electronic engineering and amplifying the capabilities of the currently available electron and phonon spectroscopies.

报告人简介：孙长庆，南洋理工大学教授，1996年Murdoch大学获博士学位，主要研究方向为化学吸附，溶化、纳米物理、多场单键力学、氢键非对称弛豫、氢键协同理论等。撰写了三本中英文专著，在Chem Rev, Surf Sci Rep, Prog Mater Sci.上发表论文20余篇。2012年被授予Khwarizmi国际奖。