

2018~2019学年第2学期第12周学术活动安排(1)

序号	主办单位	时间	地点	报告题目	报告人	报告人职称	报告人单位	联络人
沁湖讲堂之学术 (工程)第133讲	冶金装备及其控制教育部重点实验室、机械传动与制造工程湖北省重点实验室、精密制造研究院	2019年5月15日 (周三)下午3:00	青山校区 教一楼 四楼大会议室	Nanotribology: The science of friction at nanoscale	Zhijiang Ye	assistant professor	Miami University	郝老师 15827260061

校科协

2018年5月13日

报告人简介

Dr. Ye is currently an assistant professor at Miami University. He received his PhD degree in mechanical engineering from University of California, Merced in 2016. He has more than thirty peer-reviewed journal articles (in Phys. Rev. Lett., Phys. Rev. B, ACS Nano, Langmuir, etc), two journal front covers, and many conference papers. Dr. Ye received number of awards and grants from many organizations and funding agencies, including National Science Foundation, Ohio Board of Education, Society of Tribologists and Lubrication Engineers, etc..

Report summary: Reducing and controlling friction in engineered systems, from automobiles to manufacturing operations, can substantially reduce worldwide energy consumption and detrimental environmental emissions. Decades of improvements in lubricants, engineered surfaces, and mechanical design have had led to significant progress, but transformational improvements are prevented by a lack of fundamental understanding of the origins of friction. In this talk, the latest results and findings of nanotribology phenomena on low dimensional materials (graphene, MoS₂, etc) and advanced materials will be presented and the underlying mechanisms will be discussed.