



FACULTY OF SCIENCE
Charles University

School of Chemistry, Faculty of Science (FoS)
would like to invite you to attend the lecture

Quo Vadis Chemie

Carbon Nanostructures for Biomedical, Environmental, Magnetic and Catalytic Applications



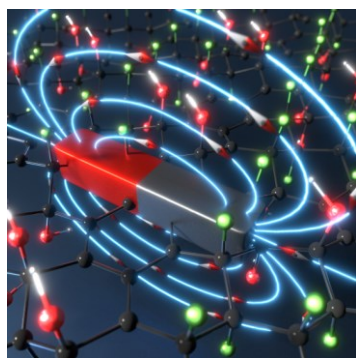
which will be delivered by

Prof. Radek Zbořil

Regional Centre of Advanced Technologies
and Materials, Palacký University in Olomouc

on 11.12. at 15:00

the Lecture Hall CH2, the School of Chemistry Building, FoS CU, Hlavova 8, Praha 2



Abstract: Low-dimensional carbon nanostructures create a quite unique world of diverse allotropes (fullerenes, carbon dots, CNTs, graphene, nanodiamonds etc.). In the present talk, the strategies towards various kinds of photoluminescent (PL) 0D-carbon dots (CDs) and 2D-graphene derivatives will be demonstrated. The broad and miscellaneous family of graphene derivatives will be introduced through examples of 2D-materials developed at our workplace.

The specific attention will be devoted to controllable chemistry of fluorographene towards first room temperature non-metallic. Finally, non-covalent hybrids of graphene derivatives with CNTs, magnetic nanoparticles, MOF species or noble metal core-shell nanosystems will be discussed.

