



**Politecnico
di Torino**

Department
of Management and
Production Engineering

#PHD EXCELLENCE COURSE

Prof. D.A. Lucca

Regents Professor and Herrington Chair
in Advanced Materials at Oklahoma State University

MECHANICS, PROPERTIES AND HIGH RESOLUTION CHARACTERIZATION OF SURFACES



COURSE SCHEDULE

FROM MONDAY, 15TH MAY 2023
TO THURSDAY, 18TH MAY 2023
9:00 A.M. - 12:30 P.M.

POLITECNICO DI TORINO
**CLASSROOM DIFIS 2
AT DISAT**

COURSE OUTLINE

The course will be 20 hrs which will include lectures and student work outside of class. It will be given over a period of 4 days. It will be divided, approximately equally, between Part 1 which will cover the mathematical foundations for the field of surface mechanics, and Part 2 which will give an overview of various experimental tools which are used for high resolution characterization of the mechanical, structural, chemical and optical properties of surfaces.

BIOGRAPHY

Don A. Lucca is Regents Professor and Herrington Chair in Advanced Materials in the School of Mechanical and Aerospace Engineering at Oklahoma State University, and Guest Scientist in the Center for Integrated Nanotechnologies Group at Los Alamos National Laboratory. He received his degrees in Mechanical Engineering from Cornell (BS), Princeton (MSE), and Rensselaer Polytechnic Institute (PhD). Professor Lucca is a Fellow of CIRP, SME, and ASME, and has received several awards and honors for his research in ion-solid interactions. He has authored over 165 scientific publications and served as President of CIRP in 2017-2018. He was recently elected to the German National Academy of Science and Engineering.

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Prof. Gianfranco Genta (gianfranco.genta@polito.it).
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