



NSF ADVANCED STUDY INSTITUTE: USING NANOTECHNOLOGY FOR FABRICATING NEW BIOMATERIALS AND NEXT-GENERATION ELECTRODES

NSF Grant #1762602, PI: K.E. Aifantis (UoF)

PROGRAM

Wednesday, July 20, 2022

- 10 am: Welcome at the AUTH Laboratory of Engineering Mechanics (ETEM)
Introduction to the Scientific Instruments to be used at the NSF ASI
- 12 pm: Welcome/Lecture by AUTH Dean of Engineering, Prof. K. Yakinthos
Unmanned Aerial Vehicles
- 1 pm: Lunch break
- 3 pm: Introductory battery Experiments

Thursday, July 21, 2022

- 10 am: Nanoindentation / Confocal Microscopy / Sputter Coating / Microtensile Experiments
- 11 am: Lecture by ETEM Director, Assoc. Prof. A. Konstantinidis
Nanoindentation
- 1 pm: Lunch break
- 3 pm: Battery Experiments

Friday, July 22, 2022

- 10 am: Nanoindentation / Confocal Microscopy / Sputter Coating / Microtensile Experiments.
- 12 pm: Lecture by Assist. Prof. X. Hatzistavrou
Biomedical Engineering
- 1 pm: Lunch break
- 3 pm: Battery Experiments

Saturday, July 23, 2022

- 10 am: Nanoindentation / Confocal Microscopy / Sputter Coating / Microtensile Experiments.
- 12 pm: Lecture by Assoc. Prof. K.E. Aifantis
Li-ion Batteries
- 1 pm: Lunch break
- 3 pm: Battery Experiments

Sunday, July 24, 2022

Cultural experience of the Ancient and Byzantine Greece

Lectures will take place at the Laboratory of Building Construction & Building Physics of AUTH
Experiments will take place at the Laboratory of Engineering Mechanics of AUTH



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PROGRAM

Monday, July 25, 2022

- 10 am: Nanoindentation / Confocal Microscopy / Sputter Coating / Microtensile Experiments
- 12 pm: Lecture by Emer. Prof. S. Baloyannis
Neurosciences Through the Times
- 1 pm: Lunch break
- 3 pm: Battery experiments.

Tuesday, July 26, 2022

- 10 am: Nanoindentation / Confocal Microscopy / Sputter Coating / Microtensile Experiments
- 12.30 pm: Farewell by Emer. Prof. E.C. Aifantis
- 1 pm: Lunch break
- 3 pm: Battery experiments

Wednesday, July 27, 2022

- 10 am: Nanoindentation / Confocal Microscopy / Sputter Coating / Microtensile Experiments
- 12 pm: Battery experiments

- **Note 1:** A session with short presentations by US participants will be scheduled
- **Note 2:** A session with short presentations by AUTH participants will be scheduled

Lectures will take place at the Laboratory of Building Construction & Building Physics of AUTH
Experiments will take place at the Laboratory of Engineering Mechanics of AUTH