Università Politecnica delle Marche
Centro di Ricerca e Servizi di Analisi Globale dei Cristalli
ICRYS
DIISM **SIMAU** **DICEA**

Series of Seminars:

SCINTILLATOR DETECTORS:
from Theory to Applications
(Medicine, Security, High Energy Physics and Engineering)

Seminar #5

Dr. Mahmoud Hmidat

FILAR Opto-Materials Srl, Tortolì, Italy

Industrial Production of Crystals
facility, processes and characterization

Room C-LAB, May 30th 2018, 10.30 – 11.30
Facoltà di Ingegneria, Università Politecnica delle Marche,
Web-streaming: https://meet.lync.com/univpm-pm/s1062746/5KT201VP

Topic

The process of crystal growth and production of crystal components is a complex job that requires the simultaneous control of a large number of parameters and conditions. The situation becomes much more rigorous in case of industrial production where both stable quality levels and reproducibility must be guaranteed.
This seminar will talk about the industrial crystal production chain going on at FILAR – Opto Materials (FOM) since more than 20 years. The talk starts with a short presentation of FOM Company to expose both facility and main products. Then, the process of crystal growth (laser, optical and scintillators) based on the Czochralski (CZ) technique is briefly illustrated. After that, the production of crystal components for the marketplace is glanced, where opto-mechanical fabrication, quality control and optical coatings principally take place. Finally, examples of custom and novel crystal products in development at FOM are to be summarized.

Contacts:
www.icrys-univpm.it
e-mail: icrys@univpm.it
Dr. Luigi Montalto (l.montalto@univpm.it)

Organizers
Prof. F. Davì: f.davi@univpm.it
Prof. D. Rinaldi: d.rinaldi@univpm.it
Prof. L. Scalise: l.scalise@univpm.it

FILAR OPTOMATERIALS Crystals for Photonics Industry
SAIMEX
cost EUROPEAN COOPERATION IN SCIENCE AND TECHNOLOGY
FAST Fast Advanced Scintillator Timing
IEEE Sensors Council ITALY CHAPTER