



OFERTA D'ACTIVITATS FORMATIVES

Programa de doctorat:

CIÈNCIA I ENGINYERIA DE MATERIALS

Codi: CEM 040-22-23

TÍTOL ACTIVITAT:

Training on fire behaviour of polymers

BREU DESCRIPCIÓ:

Formation on cone-calorimeter equipment

- Good practices and safety rules
- Suitability of a product for testing
- Specimen construction and preparation
- Apparatus description and calibration
- Interpretation of cone calorimeter data
- Analysis of results.

UL-94 Flammability test.

- Horizontal and vertical burning tests
- Test criteria, apparatus and specimens
- Procedure and calculations
- Analysis of results.

DURADA: 30hores

RESPONSABLE: Miguel Sánchez Soto



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Codi: CEM 041-22-23

TÍTOL ACTIVITAT:

Training on impact testing

BREU DESCRIPCIÓ:

Formation on:

- Analog Charpy and Izod impact tester (CEAST)
- Instrumented Charpy and tensile impact tester (CEAST)
- Instrumented dart drop impact testers for low and high energy (CEAST)

Good practices and safety rules

Equipment use and specimen preparation

Critical analysis of results

DURADA: 25 hores

RESPONSABLE: Noel León Albiter



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CIÈNCIA I ENGINYERIA DE MATERIALS

Codi: CEM 042-22-23

TÍTOL ACTIVITAT:

Training on extrusion equipment

BREU DESCRIPCIÓ:

Safety rules for extrusion equipment

Training on extrusion equipment:

- Single screw extruder IQAP-LAP E-30/25
- Twin screw extruder Collin Kneter 25X36D
- Multilayer co-extruder Collin Teach-Line CR7CT
- Blown film extrusion line IQAP-LAP E-30/25

Training on peripheral devices:

- Dryer
- Extrusion dies
- Pellet feeder
- Cooling bath
- Uptake rollers
- Pellet mills

DURADA: 15 hores

RESPONSABLE: Tobias Abt



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CIÈNCIA I ENGINYERIA DE MATERIALS

CEM 043-22-23

TÍTOL ACTIVITAT:

Training on mechanical testing

BREU DESCRIPCIÓ:

Safety rules for universal testing machines

Training on universal testing machines:

- Zwick Z010
- Galdabini Sun 2500 coupled with climate chamber
- Zwick Amsler HC25 coupled with digital image correlation GOM-ARAMIS

Training on the corresponding standards:

- Tensile (ISO 37, ISO 527, ASTM D638)
- Flexural (ISO 178, ISO 14125)
- Shear strength (ISO 4587, ISO 14130)
- Compression (ISO 604, ISO 844, ISO 3386-1)
- Tear (ISO 34-1, ISO 4674-1)
- Peeling (ISO 11339)

Training on sample preparation

Training on results analysis

DURADA: 15 hores

RESPONSABLE: Tobias Abt



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CEM 044-22-23

TÍTOL ACTIVITAT:

Training on polymer processing by injection molding

BREU DESCRIPCIÓ:

Formation on:

- Injection molding machine Engel (Victory 500/110) with Mucell® system
- Injection molding machine Mateu Solè (Meteor 440/90)
- Injection molding machine Mateu Solè (Meteor 70/22)

Good practices and safety rules

Equipment use and setting of injection molding parameters

Critical analysis on manufactured parts

DURADA: 25 hores

RESPONSABLE: Noel León Albiter



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CEM 045-22-23

TÍTOL ACTIVITAT:

Training on thermo-mechanical test applied to polymer-based systems

BREU DESCRIPCIÓ:

Training on the use of:

- Differential Scanning Calorimetry (DSC): isothermal and modulated modes.
- Rheometry Dynamic Analysis (RDA): SAOS technique, Time shift, transient flow, Gel Point
- Dynamic Thermo-mechanical analysis (DMTA)
- Thermogravimetric Analysis (TGA)

Sample preparation and manipulation.

Interpretation and critical analysis of results.

Good practices and safety rules

DURADA: 30 hores

RESPONSABLE:

Orlando Santana Pérez



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CEM 046-22-23

TÍTOL ACTIVITAT:

Training on processing and compounding at laboratory scale

BREU DESCRIPCIÓ:

Formation on laboratory scale internal mixer and compression molding

- 1) Good practices and safety rules
- 2) work under oxygen or nitrogen environment
- 3) Thermoplastic blends preparation
- 4) Elastomer and/or thermoplastic elastomer blends preparation
- 5) Dynamic and non-dynamic vulcanization methods

DURADA: 20 hores

RESPONSABLE: Nicolas Candau



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CEM 047-22-23

TÍTOL ACTIVITAT:

Workshop

BREU DESCRIPCIÓ:

Reunions periòdiques amb presentacions dels membres integrants del grup de recerca sobre l'estat de desenvolupament dels diferents tèmics del programa de doctorat.

Periodicitat mensual
Organitza: doctorands

DURADA: 15 hores

RESPONSABLE: M^a Lluïsa Maspoch