23-05-11 i-MATH Workshop on mathematical modelling of combustion

5th Meeting of the Spanish Section of the Institute of CombustionMay 23 - 25, 2011
Faculty of Mathematics
Universidade de Santiago de Compostela, Spain
Home Organizers Program Registration Location Acommodation Contact
Download our poster
Program

Invited Lectures (I.L.):

- Daniel Alvear Portilla. GIDAI (Universidad de Cantabria).
"Modeling pyrolysis of a lineal low density polyethylene through a coupled DSC/TGA analysis"

- Borja Arias Rozada. Instituto Nacional del Carbón (INCAR), CSIC.
"Postcombustion CO2 capture by Ca-looping"

- Jaime Carpio Huertas. Universidad Politécnica de Madrid.
"Ideas to create an adaptive finite element method for combustion problems"

- Gabriel García Soriano. Dpto. de Física Matemática y de Fluidos (UNED).
"Burning velocity of concave (negatively stretched) flame tips: Experiments and Modeling"

- Olaf Lemp. Universität Stuttgart
"Modelling of Mineral Transformations and Slagging in PC Flames with CFD Code AIOLOS – Conventional air flames and prospects for oxy-fuel combustion "

- Amable Liñán Martínez. E.T.S.I. Aeronáuticos. Universidad Politécnica de Madrid.
"On the combustion of hollow cone sprays generated by pressure-swirls injectors"

- Bertrand Naud. Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas - CIEMAT.
"Modelling of turbulent flames with tabulated reduced chemistry, based on mixture fraction and progress variable"

- Pedro Otero Ventín/Jesús Ramos Lage.Fundación Ciudad de la Energía.
"The CIUDEN Center for Technological Development of CO2 Capture and Transport. Opportunities for mathematical modeling"

- Laura Saavedra. Universidad Politécnica de Madrid.
"Mathematical modelling and numerical solution of group coal combustion"

- Antonio Luis Sánchez Pérez. Grupo de Mecánica de Fluidos. Universidad Carlos III de Madrid.
"The reduced-kinetic description of hydrogen-air premixed-combustion problems relevant for safety applications"

- Jong Soo Kim. Korea Institute of Science & Technology.
"Technological and Theoretical Challenges in Oxy-Fuel Combustion"

- Michael Stoellinger. Delft University of Technology.
"Mathematical modeling of pulverized coal combustion based on transported PDF methods"

Short Presentations (S.P.) / Posters (Po.):

- Elena Martin. Universidad de Vigo.
Some numerical simulation and reduced order modelling techniques applied to the control of steel products heating industrial furnaces.
- José Graña Otero. UPM.
Nonlinear Dynamics of Unsteady Premixed, Planar Flames.
- Mario Durán Camejo. Universidad Carlos III de Madrid.
Homogeneous Vapor Condensation of Combustion Products in Boundary Layer Flows

Schedule:

Time
Monday 23th
Tuesday 24th
Wednesday 25th

09:00-09:30
Registration

09:30-10:00
Opening

10:00-10:45

I.L.: Amable Liñán

I.L.: Daniel Alvear Portilla

I.L.: Bertrand Naud

10:45-11:30

I.L.: Antonio Sánchez Pérez

I.L.: Borja Arias

I.L.: Olaf Lemp

11:30-12:00
coffee break
coffee break
coffee break

12:00-12:45

I.L.: Jong Soo Kim

I.L.: Michael Stollinger

I.L.: Jaime Carpio

12:45-13:30

I.L.: Pedro Otero y Jesús Ramos

I.L.: Gabriel García Soriano

I.L.: Laura Saavedra

13:30-16:00
lunch
lunch
lunch

16:00-16:20

Po.: Fernando Varas Mérida

Short Presentations

Posters

16:20-16:40

S.P.: José Graña Otero

16:40-17:00

S.P.: Mario Durán Camejo

17:00-18:30

Posters