

PRIMERA REUNIÓN DE QUÍMICA PURA Y APLICADA

FIRST MEXICAN MEETING ON PURE AND APPLIED CHEMISTRY

LEOPOLDO GARCÍA COLÍN

EUSEBIO JUARISTI

Miembros de El Colegio Nacional

(Coordinadores)

Aula Mayor de El Colegio Nacional, Donceles # 104, Centro Histórico. México, D. F.

16 al 20 de Mayo del 2011

PROGRAMA GENERAL

Lunes 16 de mayo, 2011.

Medicinal chemistry:

10:00 *Bienvenida y presentación del evento*

Eusebio Juaristi (El Colegio Nacional)

10:15 *Selective Neuronal Nitric Oxide Synthase Inhibitors for Prevention and Treatment of Neurodegenerative Diseases*

Richard Silverman (Northwestern University, USA)

11:15 *Medicinal Chemistry of Small Azaheterocycles: Design, Synthesis and Uses in Experimental Models of Hypertension, Ddiabetes, and Parasitic diseases*

Gabriel Navarrete (Universidad Autónoma del Estado de Morelos, México)

12:15 *Receso*

12:45 *Rational Drug Design for the Treatment of Castration Resistant Prostate Cancer*

Michael E. Jung (University of California at Los Angeles, USA)

13:45 *Receso*

15:00-16:30. **Poster session**

16:30 *Public-Private Partnerships: The New Face of Innovation in Drug Discovery.*

New Approaches to Treat Amyotrophic Lateral Sclerosis

Allen B. Reitz (Pennsylvania Biotechnology Center, USA)

17:30 *Stereodivergent Synthesis of Aminophosphonic Acids and Derivatives*

Mario Ordóñez (Centro de Investigaciones Químicas, Universidad Autónoma del Estado de Morelos)

17:30 *Comentarios*

Leopoldo García Colín (El Colegio Nacional)

Martes 17 de mayo, 2011

Amino Acids, Peptides and Proteins

10:00 *The β - and γ -Peptides Built of Homologated Proteinogenic Amino Acids- from Synthesis to Structure to Microbiological to Biomedical Investigations... and Back*

Dieter Seebach (ETH-Zurich, Switzerland)

11:00 *Scorpion peptides: Structure and Function*

Lourival Possani (Instituto de Biotecnología, UNAM, México)

12:00 *Receso*

12:30 *Design of Novel Peptide and Peptidomimetic Ligands for Disease States that are Stable and Bioavailable*

Victor Hruby (University of Arizona, USA)

13:30 *Receso*

15:30 *New Methodology for the Synthesis of Peptides, Glycosides, and their Conjugates*

David Crich (Institut de Chimie des Substances Naturelles, Gif, France)

16:30 *Synthesis and Enzymatic Resolution of β -Amino Acids*

Jaime Escalante (Universidad Autónoma del Estado de Morelos, México)

17:30 *New Highlights in Peptide Synthesis*

Jean Martinez (Universidad de Montpellier, Francia)

Miércoles 18 de mayo, 2011.

Organocatalysis:

10:00 *New Activation Modes and Concepts in Organocatalysis*

Karl A. Jorgensen (Aarhus University, Denmark)

11:00 *Ball Milling as “Green” Tool in Asymmetric Organocatalysis*

Gregorio Hernández (Centro de Investigación y de Estudios Avanzados del IPN, México)

12:00 *Receso*

12:30 *Lewis Base Activation of Lewis Acids: A New Paradigm for Catalysis in Main Group Chemistry*

Scott Denmark (University of Illinois, USA)

13:45 *Free afternoon*

Jueves 19 de mayo, 2011.

Organometallic chemistry:

10:00 *Bonding Boron to Aromatic Metalation Synthetic Strategies*

Victor Snieckus (Queen’s University, Canada)

11:00 *Use of Organometallic Compounds in the Activation and Transformation of Molecules of Interest in Industry*

Juventino García (Facultad de Química de la UNAM, México)

12:00 *Receso*

12:30 *Organotrifluoroborates: Novel Reagents and Reactivity*

Gary Molander (University of Pennsylvania, USA)

13:45 *Receso*

15:00 -16:30. **Poster session**

16:30 *Molecular Design of Acid Catalysts for Asymmetric Synthesis*

Hisashi Yamamoto (The University of Chicago, USA)

17:30 *Tailor-made Metal Catalysts for More Efficient, Sustainable Synthetic Protocols*

Raúl SanMartín (Universidad del País Vasco, España)

18:30 *Transition Metal Complexes with Two Families of Nitrogen Donor Ligands:*

Triazenide and Tri(pyridyl)imidazolines

Miguel Parra-Hake (Instituto Tecnológico de Tijuana, México)

Viernes 20 de mayo, 2011.

Biomolecules and Materials:

10:00 *Farnesylated Proteins. A Method for the Regioselective Immobilization of Proteins.*

C. Dale Poulter (University of Utah, USA)

11:00 *Novel Materials for Application in Energy*

Héctor A. Calderón (Escuela Superior de Física y Matemáticas del Instituto Politécnico Nacional, México)

12:00 *Receso*

12:30 *Poly (Lactic Acid) Derivatives: Synthesis and Characterization of Nanofiber Scaffolds*

Ricardo Vera (Instituto de Investigaciones en Materiales, UNAM, México)

13:00 *Electrocatalysts: from Synthesis and Characterization to Prototypes*

Omar Solorza (Centro de Investigación y de Estudios Avanzados del IPN, México)

14:00 Clausura