



XIV Reunión de la Academia Mexicana de Química Orgánica

CURSO PRE-CONGRESO



Named Reactions in Organic Synthesis

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Program Overview

March 20 (Tuesday)	
8:30-11:00 AM	Overview of Functional Groups, Functional Group Interconversions, Major Reaction Types, Reaction Categories & Reactive Intermediates –This is a quick review of atomic and molecular orbitals, HOMO-LUMO interactions to make sure that the students are all on board with the basics.
1:30-4:00 PM	Substitution Reactions – (S_N1 , S_N2); Neighboring group participation; Overview of the mechanism of selected synthetically useful substitution reactions (e.g., Finkelstein, Gabriel synthesis, Mitsunobu, Krapcho decarboxylation, Williamson, etc). If time allows we will also discuss S_EAr , S_NAr ; Overview of the mechanisms of selected synthetically useful reactions (e.g., Friedel-Crafts, Gattermann-Koch, Fries rearrangement, Chichibabin amination, Smiles rearrangement, etc.)
March 21 (Wednesday)	
8:30-11:00 AM	Various Pericyclic Reactions Including Cycloadditions and Electrocyclizations – Overview of the mechanisms of selected synthetically useful reactions (e.g., Alder ene, Diels-Alder, DeMayo, Paterno-Buchi, Staudinger ketene cycloadditions, Nazarov cyclization)
1:30-4:00 PM	Classification of Sigmatropic Rearrangements and Predicting Selectivity [2,3]- and [3,3]-Sigmatropic Rearrangements – Overview of the mechanisms of selected synthetically useful reactions (e.g., [2,3]: Aza-Wittig, Wittig, Mislow-Evans, Meisenheimer, Sommelet-Hauser rearrangements; [3,3]: Aza-Cope, Aza-Claisen, Claisen, Claisen-Ireland, Cope, Eschenmoser-Claisen, Johnson-Claisen, Overman, Oxy-Cope rearr.)