
Student Research Seminar Schedule

Session A - Morning (FRNY G124)

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| 8:30 AM – 8:50 AM | Influence of Copper Site Structure and Proximity in Cu-CHA Zeolites on Partial Methane Oxidation to Methanol
Laura Wilcox
<i>Dr. Rajamani Gounder</i> |
| 8:55 AM – 9:15 AM | Structural Interconversion Between Agglomerated Pd Domains and Isolated Pd Cations in Chabazite Zeolites
Trevor Lardinois
<i>Dr. Rajamani Gounder and Dr. Fabio Ribeiro</i> |
| 9:20 AM – 9:40 AM | Effects of Dioxygen Pressure on Rates of NOX Selective Catalytic Reduction with NH₃ on Cu-CHA Zeolites
Casey Jones
<i>Dr. Rajamani Gounder and Dr. Fabio Ribeiro</i> |
| 9:45 AM – 10:05 AM | Pyrolysis-based processing of biomass and shale gas sources for the production of chemicals and fuels
Abhijit Talpade
<i>Dr. Fabio Ribeiro</i> |
| 10:10 AM – 10:30 AM | Density Functional Theory Analysis of Conversion of Light hydrocarbons into Fuels and Chemicals
Ranga Rohit Seemakurthi
<i>Dr. Jeffrey Greeley and Dr. Fabio Ribeiro</i> |
| 10:35 AM – 10:55 AM | Propylene Epoxidation on Au/TS-1: Deconvoluting the Catalytic Contributions of Gold Active Sites
Jeremy Arvay
<i>Dr. W. Nicholas Delgass and Dr. Fabio Ribeiro</i> |
| 11:00 AM – 11:20 AM | Designing Multi-functional Catalyst Models using First Principles and Machine Learning
Pushkar Ghanekar
<i>Dr. Jeffrey Greeley</i> |
| 11:25 AM – 11:45 AM | Understanding selectivity in NO electroreduction on Pt₃Sn alloys via a first principles approach
Siddharth Deshpande
<i>Dr. Jeffrey Greeley</i> |

Student Research Seminar Schedule

Session B - Morning (FRNY B124)

8:30 AM – 8:50 AM	The Role of Adhesion and Stiffness on the Sensitivity of Energetic Materials to Vibration and Impact Jason Wickham <i>Dr. Stephen Beaudoin and Dr. Steven Son</i>
8:55 AM – 9:15 AM	Relationship of interfacial tensions of oil/water interfaces to oil recovery efficiency Jaeyub Chung <i>Dr. Bryan W. Boudouris and Dr. Elias I. Franses</i>
9:20 AM – 9:40 AM	Solution Phase Fabrication of Cu(In,Ga)(S,Se)₂ Thin-Film Solar Cells Using Amine-Thiol Solvent System Swapnil Deshmukh <i>Dr. Rakesh Agrawal</i>
9:45 AM – 10:05 AM	Silver Indium Diselenide: An Intriguing Absorber Layer Candidate for Low-Cost, High Efficiency Printable Photovoltaics David Rokke <i>Dr. Rakesh Agrawal</i>
10:10 AM – 10:30 AM	Identifying Energy-Efficient Distillation Configurations: Advances in Modelling and Optimization Tony Joseph Mathew <i>Dr. Rakesh Agrawal</i>
10:35 AM – 10:55 AM	Electrohydrodynamic Equatorial Streaming Brayden Wagoner <i>Dr. Osman A. Basaran and Dr. Michael T. Harris</i>
11:00 AM – 11:20 AM	Green Synthesis of Metal Nanoparticles Exploited Novel Biological Templates: Barely Striped Mosaic Virus Virus-Like Particles Yu-Hsuan Lee <i>Dr. Michael T. Harris</i>