

2011-12 Student Presentations

1. Solid Sorbents for H₂S – Sagar Lunawat
2. CO₂ Capture Using Amine Functionalized SBA-15 Sorbent – An Zhao
3. Macerals Separation and Coal Characterization – Ali Khakbazan Fard
4. Using CuO/Cu₂O Equilibrium for CO₂-enriched Oxygen Production – Mehdi Alipour
5. Chemical Upgrading by Hydrothermal Treatment – Mohammad Sharifi
6. Physical Upgrading of Coal by Hot-Air-Assisted Dense Media Fluidized Bed Separation – Ebrahim Azimi

2012-13 Student Presentations

1. Presenter: Manjeet Chowdhry - September 24, 2012
Researchers: Manjeet Chowdhry and Diwen Zhou
“Study of Interaction of Collector Molecules with Pb, Cu and Zn ions and Pyrite Surfaces.”
2. Presenter: Kaipeng Wang - October 16, 2012
Researchers: Kaipeng Wang, Lei Wang, Mingli Cao, Qi Liu
“Xanthation-Modified Polyacrylamide and Spectroscopic Investigation of Its Adsorption onto Mineral Surfaces.”
3. Presenter: Xiao Ni - October 16, 2012
Researchers: Xiao Ni and Qi Liu
“The Adsorption and Configuration of Octyl Hydroxamic Acid on Pyrochlore and Calcite.”
4. Presenter: Qingye Lu - February 4, 2013
Researchers: Jingyi Wang, Qingye Lu*, Ling Zhang, and Lei Xie
“Intermolecular and Surface Interaction Mechanisms in Flotation of Sulfide Minerals in Complex Aqueous Media.”
Supervisors: Dr. Hongbo Zeng and Dr. Qingxia Liu
5. Manjeet Chowdhry and Diwen Zhou - February 25, 2013
“Design of Sulfide Mineral Collectors by Density Functional Theory (DFT) and Molecular Dynamics (MD) Simulation”
Supervisors: Dr. Zhenghe Xu and Dr. Qingxia Liu
6. Presenter: Ghazeleh Haghighat - March 22, 2013
Researchers: Ghazeleh Haghighat
“Solvent Extraction of Coal in Short Contact Time and Different Temperatures”
Supervisor: Arno de Klerk

2013-14 Student Seminars

1. Md Shafiul Azam – September 5, 2013
“Surface Spectroscopic Studies of Molecular Recognition on Bare and Functionalized Silica”
Supervisors: Dr. Qingxia Liu and Dr. Hongbo Zeng
2. Masih Sekhvat – September 9, 2013
“Real-Time Updating of Fundamental Model for Froth Flotation and Comparison with Experiments”
Supervisor: Dr. Vinay Prasad

2014-15 Student Seminars

1. Yahui Xiang – April 17, 2014
“N-carboxymethyl chitosan in differential flotation of galena and chalcopyrite”
Supervisor: Dr. Qi Liu
2. Azar Shabani – May 14, 2014
“Chemical Looping Combustion of Ash Free Coal with CuO as an Oxygen Carrier”
Supervisor: Dr. Rajender Gupta
3. Navjot Kaur Sandhu – May 14, 2014
“Steam regeneration of PEI impregnated silica sorbents for post-combustion CO₂ Capture: Preliminary results”
Supervisor: Dr Rajender Gupta
4. Dr. Mohammad Reza Poopari – February 9, 2015
“Insight into Intermolecular Interactions: Combined Experimental and theoretical Approaches Using Chiroptical Spectroscopy Complemented with Density Functional Theory”
Supervisors: Dr. Hongbo Zeng and Dr. Qingxia Liu
5. Dr. Ye Chen – February 26, 2015
“DFT Research on the Electronic Property and Surface Adsorption of Sulfide Minerals”
Supervisor: Dr. Zhenghe Xu