PURDUE UNIVERSITY

DAVIDSON SCHOOL OF CHEMICAL ENGINEERING

To: New Graduate Students and ChE Faculty
From: Sangtae Kim, Head
Subject: Advisor Assignments, Fall 2018
Date: 11/16/2018
Cc: Y. Rosas, B. Johnson, J. Valley

For the students joining our graduate program this fall, the advisor assignments are shown below. Students should contact their new advisors at their earliest convenience to plan and discuss their research.

ADVISOR ASSIGNMENTS – Fall 2018

Student	Advisor	Project
Battistoni, Carly	Liu	Articular Cartilage Tissue Engineering
Bolton, Brandon	Gounder	Metal-zeolites for low temperature automotive emission catalysis
Cai, Lirong	Pol	Rechargeable Li-ion Battery Safety
Chang, Che-Wei	Miller	Development of New Energy Technologies
Cherupally, Vikramadhitya	Narsimhan	Viscoelastic behavior of concentrated starch suspensions
Conrad, Matthew	Miller/Greeley	Olefin reactions on single-site transition metals
Ezenwa, Sopuruchukwu	Gounder/Ribeiro	Olefin reactions on solid Bronsted acids
Fesenmeier, Daniel	Won	Polymer Lung Surfactants
Gao, Junxian	Miller	Strong Metal Support Interactions: Theory and Experiments
Gentilcore, Clayton	Wang	Conversion of Plastic Waste into Useful Products
Hsu, Sheng-Ning	Boudouris/Dou	Organic Radical Electrochemical Transistors (ORECTs) as Next-Generation Bionsensors
Huang, Yan-Shu	Nagy/Reklaitis	Real Time Process Management of Continuous Pharmaceutical Manufacturing
Kumar, Sumit	Nagy/Reklaitis	Real Time Process Management of Continuous Pharmaceutical Manufacturing
Li, Zheng	Pol/Varma	Mechanistic Elucidation of Thermal Runaway in Potassium-Ion Batteries
Liang, Zihao	Wang	Recovery and Purification of Rare Earth Elements
Liu, Xiao	Basaran	Perfection through fluid mechanics: eliminating small drops and impacting printing, coating, and crop science
Mikes, Andrew	Gounder	Cu-zeolites for selective oxidation catalysis
Morankar, Ankita Rajendra	Greeley	First principles studies of electrocatalysis at water/metal interfaces
Murray, Anna	Agrawal	Solution processed thin film inorganic solar cells and other electronic devices
Pradhan, Apurva	Agrawal	Solution processed thin film inorganic solar cells and other electronic devices
Russell, Christopher	Miller/Greeley	Alkane Activation
Sawant, Kaustubh	Greeley	Computational and experimental studies of the strong-metal support interaction in heterogeneous catalysis
Singh, Natasha	Narsimhan	Separating blood and other multicomponent suspensions in microfluidic environments
Song, Hosup	Caruthers	Mechanical Behavior of Glassy Polymers
Tan, Ying	Boudouris/Savoie	Computational Design and Experimental Syntheses of Next-

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Generation Conducting Polymers

Student	Advisor	Project
Turnley, Jonathan	Agrawal	Solution processed thin film inorganic solar cells and other electronic devices
Ugrani, Suraj	Won	Controlled Drug Release Polymers
Viswanath, Dhushyanth	Won	Cancer Radio Luminescence Therapy
Wei, Zitang	Dou	Organic - inorganic hybrid perovskite semiconductors
Wettschurack, Kyle	Yuan	Enhancing Transgene Expression and Retention by Co-delivery of DNA Vectors with Modified Histones
Wu, Wei-Lee	Nagy	Process intensification through advanced control in pharmaceutical crystallization systems
Xie, Junkai	Yuan	Enhancing Transgene Expression and Retention by Co-delivery of DNA Vectors with Modified Histones
Xu, Yibo	Bao	Human stem cell differentiation and manufacturing for cell-based therapies (i.e. diabetes)
Yungbluth, Jack	Savoie/Caruthers	Computational Design of Glass-Forming Small Molecules and Polymers
Zhao, Qiyuan	Savoie	Computational Design and Characterization of Electrolyte Decomposition in Post Li-Ion Batteries

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