Alcoa Foundation Research

The Alcoa Foundation Award has continued into its second year of research. Pictured below are the graduate students who are being supported in their research and studies through this award. Hidemichi Yonezawa and Dr. Ed Balistreri are investigating the impact of carbon pricing on aluminum production and recycling. Kaylee Acuff and Dr. Dan Kaffine are tackling the issue of greenhouse gas externalities. Brian Batson and Dr. Rod Eggert are focusing on price feedbacks in the recycled goods markets. John Perez, Dr. Kaffine, and Dr. Michael Heeley are looking at drivers of recycling innovation. This research will benefit other organizations when formulating policies with respect to recycling. The Division appreciates the research opportunity from Alcoa.

Save the Date!

The weekend of April 28-30 will be Colorado School of Mines Reunion Weekend, highlighting the Division of Economics and Business. Join us for the Faculty and Industry Symposium followed by a Division Luncheon Celebration. See page 3 for details.

Division at a Glance

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<td>Mineral Economics PhD Students</td>
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Carol Dahl - winner of the U.S. Association for Energy Economics (AEE) Adelman-Frankel Award

Professor Dahl was recognized at the the North American meeting of AEE in Calgary in October 2010 for her contributions to the field of energy economics. This award is given to an individual or organization for unique and innovative contributions to the field of energy economics.
In the News

Dr. Rod Eggert received the 2010 Mineral Economics Award from the American Institute of Mining, Metallurgical and Petroleum Engineers (AIME) for “contributions to resource development research and global mineral policy development.” He was presented the award on March at the annual dinner of the Society of Mining, Metallurgy, and Exploration.

Rare earth elements—which provide essential properties to permanent magnets in hybrid and electric vehicle and to phosphors in compact fluorescent light bulbs—have been much in the news, due to China’s near monopoly on current production. Professor Eggert has been much in demand for his views on the rare-earth situation. In September, he testified before the Subcommittee on Energy of the U.S. Senate’s Committee on Energy and Natural Resources. He argued that, while markets provide powerful incentives for dealing with supply risks, there are important roles for government where markets fail. In particular, governments play essential roles in ensuring undistorted international trade, facilitating the provision of information necessary for informed public and private decision making, and promoting basic scientific and technical research that over the longer term provide the best solutions to supply risks. Over the past year, Professor Eggert was quoted frequently in the press on rare-earth issues, including in the Christian Science Monitor, Denver Post, the Wall Street Journal, and Science. In January, he testified on rare earths and other critical minerals before the Committee on Industry, Research and Energy, European Parliament, Brussels.

Graham Davis works with the United Nations

In 2009 the Mongolian government contacted the United Nations Industrial Development Organization (UNIDO) for help with the design of a strategic industrial policy plan. Because of the exceptional mineral wealth in Mongolia, the mining and energy sectors are likely to play an important role in such a plan. UNIDO contacted Dr. Graham Davis for assistance with the mining and energy portion of the task. Other experts were hired to formulate plans with regard to livestock and textiles. Professor Davis, aided by the graduate students in his mineral and energy policy class, undertook a six-month research project that examined Mongolia’s strategic advantages in mineral and energy production. The study involved two trips to Mongolia, one in -30 degree temperatures in January of 2010. One of the main challenges for Mongolia is its lack of infrastructure. Another is its lack of skilled labor relative to its land endowments. On the other hand, Mongolia has a relatively well-educated population and a democratic and well-functioning government. There is no doubt that given its massive mineral endowment, Mongolia is poised to become the Chile of Central Asia, only with a more diversified minerals export structure that should prove useful in avoiding the export volatility that has plagued Chile. The question is to what extent Mongolia’s mineral products can and should be processed prior to export. While the Mongolian government has strong views that such processing should be undertaken, the results of this report showed that Mongolia’s lack of infrastructure and water and the desires of its major trading partners to import unfinished goods will make the competitive export of value-added mineral products challenging.
Classroom Skills Put To Good Use

Dr. Alexandra Newman, associate professor of economics and business, supervised a student research project to develop the spring Rocky Mountain Athletic Conference (RMAC) softball schedule. Students Marjorie Cone Saur, Kaleigh Starr, and Mark Husted used knowledge gained from their integer programming courses to create the schedule. The schedule balances each team’s home and away games, precludes multiple successive weekends of distant travel, ensures that each team either starts or ends its season of conference play at home, and attempts to mitigate cold weather play at the start of the season while ensuring that all requisite games are played against all conference opponents.

New Operations Research Professor

Dr. Steffen Rebennack received an “Honorable Mention” for The 2010 George B. Dantzig Dissertation Award. This award is given by the Institute for Operations Research and the Management Sciences (INFORMS) to recognize innovative dissertations that are also relevant to practice. Dr. Rebennack graduated from the University of Florida in 2010 with a PhD in Industrial and Systems Engineering. His areas of specialization are power systems modeling and optimization, stochastic optimization, global optimization and decomposition methods. We are delighted to welcome Dr. Rebennack to the Division of Economics and Business.

Division Reunion Weekend

Saturday, April 30, 2011
Faculty Symposium 10:30 - 12:30 pm
Title: Critical Energy and Mineral Resources: Challenges and Opportunities

TOPICS AND PANELISTS:
- Paradigms of Resource Availability: John Tilton, Research Professor of Economics and Business
- Oil and Gas: Steve Sonnenberg, Professor and Charles Boettcher Distinguished Chair in Petroleum Geology
- Uranium: Sam Romberger, Emeritus Professor of Geology and Geological Engineering
- Rare Earths and other Critical Minerals: Rod Eggert, Professor and Director, Division of Economics and Business
- Recycling: Dan Kaffine, Assistant Professor of Economics and Business

Networking and Celebration Luncheon 12:30 - 2:00 pm
Graduates of the Division of Economics and Business will be celebrated during this reunion luncheon. All alumni who graduated from the Division of Economics and Business (regardless of class) are invited to attend with their guests. Dress code is business casual.

The Economics & Business Reunion will be held in conjunction with Reunion Weekend. You are invited to attend other reunion activities. To see a list of activities during the Reunion Weekend 2011 and to register, go to minesonline.net.
Gifts and Contributions
July 2009 - June 2010
Thank you for your continued support of the Division of Economics and Business. Your contributions allow us to award fellowships, update computer lab software and support students in a variety of ways. In this time of economic challenge we recognize the value of your gifts and support.

Accenture Foundation
Alcoa Foundation
Anglo American Corp.
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Vikram Balasubramanian
Jerome and Rebecca Broussard
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Sarah Ladouceur
Burke Lowrey

Vladimir Morakhovsky
A. Scott Moore
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Robert Potter
Kevin Schmidt
Martin Schmidt
David Schramm
Faculty and Staff
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How to make a gift to the Economics and Business Alumni and Friends Fund
Make a check payable to the CSM Foundation Inc. and indicate account 6-34059. Send to CSM Foundation, PO Box 4555, Golden, CO 80401-9595. Or go on-line to https://www.oia.mines.edu/forms/pldge/pledge.htm and make your donation on the secure website with your credit card.

Graduation Awards 2010

William Jesse Coulter Award in Mineral Economics
Emily Klawon Newes

Hubert and Sarah Risser Award in Mineral Economics - Daniel Jerrett

Broussard Award for Outstanding ETM student - Matthew Pusard

Outstanding EB Senior Award
Victor Rink

Not pictured:
Heather Thompson - William Jesse Coulter Award in Economics
Cynthia Godard - Wall Street Journal Student Achievement Award
Kaleigh Starr - E-Days Engineer for Economics and Business
Congratulations to our Graduates of 2009-10

December 2009

PhD - Mineral Economics
Lauren Davis

MS - Mineral Economics
Greg Bosunga-Sileki
Maroya Faied
Jonathan Forde
Aymen Hachaichi
Kaitlin McGovern
Jacob Messing
Emily Klawon Newes
Nicholas Paduano
Saumya Rana
Stefan Revielle
Thibauld Tornure de Sazilly

MS - Engineering and Technology Management
Kathryn Acuff
Ismael Aguayo
Nami Alamri
Timothy Barelli

BS - Economics
Dane Bernhardt
Robert Brokering
Randall Hansen
Christopher Huter
Daniel Keeran
Ashley Laughlin
Chad Linse
Caitlyn Ruegger
Alicia Thompson

May 2010

PhD - Mineral and Energy Economics
Daniel Jerrett
Luky Yusgiantoro

MS - Mineral Economics
Katherine Jolly

MS - Mineral and Energy Economics
Eyas Alhomouz
Ryan Boyle
Marjorie Cone
Masashi Ikeda
Jose Lobato Goncalves
Ashley Menger
Stefano Johnson
Michael Rice

MS - Engineering and Technology Management
Sreelu Bhatt
Samuel Cooper
James Deyerle
Waylon Hazen
Benjamin Hubbard
James Jones
Benjamin Juba
Ferhat Erman Koc
Stephen McCrady
Keegan Moyer
Ryan Peters
Matthew Pusard
Luiggi Sassarini Vergara
Stephen Schniefer
Virunda Srisurayothin

Kaitlin McGovern
Jacob Messing
Aymen Hachaichi
Kaitlin McGovern
Jacob Messing
Emily Klawon Newes
Nicholas Paduano
Saumya Rana
Stefan Revielle
Thibauld Tornure de Sazilly

Kathryn Acuff
Ismael Aguayo
Nami Alamri
Timothy Barelli

Lixue Bi
Sarah Chase
Tully Gallagher
Ryan Gibbons
Michael Gulsvig
Andrew Martin

Kenneth Melby III
Trevor Morley
Samuel Peay
Nicholas Peterson
Matthew Sauer

Eyas Alhomouz
Ryan Boyle
Marjorie Cone
Masashi Ikeda
Jose Lobato Goncalves
Ashley Menger
Stefano Johnson
Michael Rice

Kelsey Crist
Erin Doherty
Taylor Embury
Kristina Britton Escoe
Cynthia Godard
Stephanie Hagemeister
Zachary Jones
Michael Pierce
Victor Rink
Michael Schraarschmidt
John Schlothauover
Marshall Schuler
Kaleigh Starr
Heather Thompson
Ian Wright

Pablo Suarez
Phillip Suarez
Aaron Sumner
Scot Szatkowski
Dominic Weber
Andrew Werth
Nicole Wurr

WINTER 2011
Tyler Thyfault
Outstanding Economics Undergraduate student

PhD - Mineral and Energy Economics
Durga Prasad Kar

MS - Mineral and Energy Economics
Mark Cleveland
Elizabeth Dinan
Danielle Fox
Andrew Gilmore
Charis Karakatsanis
M’hamed Khellafi
Daniel Leppert
Oluwarotimi Oladapo
Ahmet Ozturk
Berengere Papin
John Anthony Perez
Frederic Pousse
Joseph Ranney
David Richardson
Daniel Vagasky
James Woeller
Abdel Zellou

MS - Engineering and Technology Management
Saleh Alsugair
Rachel Ballantyne
Amanda Bowers
Thomas Boyles
Reyna Bryan
Justin Clark
Dustin DeForest
Kelly Eurek
Thomas Gamarano
Colby Gordon
Grant Gunhus
Silver Ibenye
Damian Illing
Jeffrey Jantos
Fan Jie
Brandon Joy
Matthew Mientka
James Molde
Nicholas Pfeffer
Sunder Ramamurthy
Fadi Sawaged
Michael Schaarschmidt
Peifang Yang

BS -Economics
Bryan Cantor
Taylor Embury
Alexandra Moehle
Catarina Stewart
Tyler Thyfault
Benjamin Tiller
Richard Vidal
Robbin Vinnola

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