

THE DIVISION OF ECONOMICS & BUSINESS

Fall 2004



Division Facts at a Glance...

Undergraduate Majors	114
Undergraduate Minors	76
Engineering & Technology Management	
M.S. Students	38
Mineral Economics M.S. Students (Includes Petroleum Economics & Management [17])	38
Mineral Economics Ph.D. Students	16

Inside This Issue...

Greetings From Division Director	2
ETM Executive-in Residence	3
Heeley Joins EB Faculty	4
Balistreri Joins EB Faculty	5
Outstanding Undergrads	6
EB Thanks Its Supporters	7

Greetings from the Division Director

A distinguishing feature of our degree programs is that they are *applied*. Our graduate programs in Mineral Economics, now more than 30 years old, emphasize the application of analytical tools from the fields of economics, finance, and management science to mineral energy issues. The undergraduate program in Economics, entering its 11th year, takes from microeconomics, macroeconomics, and econometrics and applies them to problems in business and government. Our youngest program, Engineering and Technology Management, begins its fourth year of providing graduate management education to engineers and applied scientists, in which the special focus is on applying management and leadership tools to issues facing technology-based companies and industries. We continue to attract excellent students to all three programs!



I hope you enjoy this edition of our annual newsletter, which contains examples of *applications* in our programs. We always enjoy hearing from our alumni and friends—so please keep in touch. Stop and see us when you are in Golden.

Rod Eggert
reggert@mines.edu
303-273-3981

Division of Economics and Business Newsletter Fall 2004

EDITOR: Amy Garcia
LAYOUT: Connie Sanford
CONTRIBUTORS: EB Faculty and Staff
PHOTOGRAPHY: CSM Archives, Kathleen Feighny, Connie Sanford



ETM Executive-in-Residence

The Engineering and Technology Management Program (ETM) is delighted to have Raymond Colladay as its 2004 Executive-in-Residence. The theme for the Fall 2004 EIR seminars is "Leadership Issues."

Colladay is a senior executive with extensive experience and success in building winning teams by formulating competitive strategies, leveraging technology, structuring international alliances, fostering creativity and innovation, and motivating organizations to achieve their goals. His career highlights include: Corporate Officer and



President, Lockheed Martin Astronautics; Agency Director, Defense Advanced Research Projects Agency (DARPA) of the U.S. Department of Defense; and Associate Administrator, NASA.

Colladay is currently consulting, teaching, serving on several boards and commissions, and pursuing interests in volunteer work. He is President and CEO of RC Space Enterprises, Inc., which provides management support, business strategy, and technical services to client organizations in government and industry.

OR Faculty Member Featured

EB Faculty member Alexandra Newman teaches and conducts research in Operations Research. She has been a faculty member since fall 2000. Operations Researchers study the mathematical formulation of complex engineering, economics, and management problems, solution methodologies for these problems, and the analysis of the resulting solutions.

Newman has taught Introduction to Operations Research (EBGN 525), Linear Programming (EBGN 555), and Advanced Computational Optimization (EBGN 557). EBGN 525 is a general introductory course in operations research methods, but in more advanced optimization courses, students learn about exciting topics such as how to know that you are guaranteed to win money on a bet and how to schedule college basketball games.

Newman relaxes (?) by running

about 60 miles a week. She competes in national events and ran on the Great Wall of China this summer for pleasure. She says her athletic experience has taught her that perseverance, discipline, and patience are essential to success, not only in athletics, but also academically.



In 2003, Newman was selected for the Engineering and Technology Management Excellence in Teaching Award.

Newman obtained a B.S. in Applied Mathematics from the University of Chicago (1993), and an M.S. in Operations Research and Ph.D. in Industrial Engineering from UC Berkeley (1994, 1998).

What Can Brown Do for You?

The EB graduate student seminar series gives students an opportunity to come face-to-face with industry speakers. ETM graduates Janel Brooks and Derick Ofori-Kuragu, along with their supervisor, Sarah Anderson, presented a UPS seminar titled "What Can Brown Do for You?" The seminar gave an overview of UPS and what roles engineers as managers play within the company. It included the life cycle of a package in the different UPS systems and worldwide logistics. The discussion following the presentation described positions and internships available at UPS.

Janel Brooks, B.S. in Math and Computer Science and M.S. in ETM, works as a supervisor in the Industrial Engineering Department. Brooks is responsible for ensuring that tractors and trailers are fully utilized in the Rocky Mountain District.



Derick Ofori-Kuragu, B.S. in Mining Engineering and M.S. in ETM, is a full time UPS supervisor. He is also working on his M.S. in Mineral Economics at CSM.



Ofori-Kuragu is currently part of a UPS team improving the package dispatch and planning process.

Faculty News

Jim Otto was invited by the World Bank to address the World Mine Ministers Forum held in Toronto March 4—6. The Forum was attended by 235 delegates from 38 countries and over 70 jurisdictions. Otto's paper was titled "What are the Benefits Streams from Mining: Only Taxes?" It set the stage for a series of case studies illustrating the benefits and costs associated with large mines. This is the second time the World Bank has asked Otto to assist in the Forum. The presentation can be downloaded from www.wmmf.org.



Otto was also named to the Executive Committee of the Latin America Mining Law Institute sponsored by the Rocky Mountain Mineral Law Foundation, International Bar Association, and Latin America Mining Law Society. This bi-annual event is the premier mining law conference in Latin America and draws participants from throughout the Americas.

Alexandra Newman, with C. Yano and P. Kaminsky of UC Berkeley, had a paper, "Third Party Logistics with Routing and Inventory Costs," accepted for publication in *Supply Chain Optimization*, Kluwer's Applied Optimization Series, edited by J. Geunes and P. Parados. Newman continues to work on funded research for LKAB's Kiruna Mine. She also traveled to the University of Western Australia where she is collaborating with Dr. Paul Crompton on a network model addressing trade flows of hot strip steel.

Newman competed in the cross country national championships in December 2003 and placed 71st.

John Stermole has been busy this year presenting a number of on-site seminars for companies including

Occidental Petroleum, Western Gas, Barrick's Eskay Mine, the Society of Petroleum Engineers, and Midland College. This fall he will also teach at the University of Denver, College of Law, and continue to offer in-house seminars for Duke Energy, Alyeska Pipeline, Barrick GoldStrike, Occidental Petroleum, Anadarko Petroleum, Midland College, Burlington Resources, Colorado School of Mines Office of Special Programs & Continuing Education, and ConocoPhillips in HoChiMinh City, Vietnam.



Frank Stermole visited England, Kenya, Tanzania, South Africa, China, and Alaska. He is providing consulting services to ExxonMobil and teaching short courses for Anadarko Petroleum and the Colorado School of Mines Office of Special Programs and Continuing Education.

In late 2004, both Stermoles will work on the 11th Edition of their textbook, *Economic Evaluation and Investment Decision Methods*. Since 1973, approximately 50,000 copies of the textbook have been circulated to course participants, collegiate students, and those interested in discounted cash flow analysis.



Heeley Joins EB Faculty

Dr. Michael Heeley joins the EB faculty from the Jones Graduate School of Management at Rice University, where he taught and coordinated the entrepreneurship curriculum for science and engineering students. While at Rice, he worked



closely with the Rice Alliance for Technology and Entrepreneurship, involving Rice's school of Engineering, Management, and Natural Resources. Previously, Heeley taught at the DuPree College of Management at the Georgia Institute of Technology where he coordinated the Engineering Entrepreneurship program.

Heeley holds a Ph.D. degree in Business Policy and Strategy from the University of Washington, an M.S. degree in Statistics from the University of Washington, and an M.S. in Mining Engineering from the MacKay School of Mines, University of Nevada, Reno. His B.E. degree is from the Camborne School of Mines.

In Fall 2004, Dr. Heeley will teach two ETM courses: EBGN 566, Technology Entrepreneurship, and EBGN 598, Marketing Research.

More Faculty News

Irina Khindanova is researching exploration expenditures and trends in financing of mining companies. Kindanova's article "GARCH-Type Processes in Modeling Energy Prices," with Z. Atakhanova and S. Rachev, has been published in the *Handbook of Computational and Numerical Methods in Finance*, 2004. Six essays will appear in 2005 in the *Encyclopedia of Financial Engineering and Risk Management*, Routledge Refer-



Graham Davis was interviewed for a radio program that was broadcast nationally by NPR the weekend of April 10. The subject of the program was "green income accounting", which corrects GNP for environmental depletion and other considerations. Living on Earth is an environmental show broadcast over most NPR stations.



David Moore spent summer 2004 writing an interdisciplinary paper on production economics, operations research, organizational learning, and technology management. He has been invited to present his research at the 2004 INFORMS meeting in Denver. While there, he will participate in the teaching effectiveness colloquium. This past summer, Moore researched technology management in the copper industry. He also began discussions with representatives of El Paso Western Pipeline Group of Colorado Springs, who hope to engage ETM and Mineral Economics students in technology management projects involving operations research.



Moore recently enjoyed a 20-plus fish morning in his "secret spot" near his Boulder home (catch and release, of course!). He also ran to the top of Mount Werner, where he experienced simultaneous feelings of exhaustion and exhilaration—and noted its similarity to being in graduate school.

Balistreri Joins EB Faculty

Dr. Edward Balistreri joins us as an Assistant Professor in Fall 2004. Dr. Balistreri comes to CSM from the United States International Trade Commission, where he was an economist in the Research Division.



Balistreri's current research focuses on empirical methods and dynamic simulation analysis of policy. Balistreri has recognized publications on endogenous trade policy, climate change policy, hypothetical bias in environmental valuation, and equilibrium unemployment.

Prior to joining the USITC, Dr. Balistreri was a Senior Associate at Charles River Associates, Inc., and a Research Associate at The University of Colorado's Center for Economic Analysis and Center for Research on Judgment and Policy.

Dr. Balistreri holds a Ph.D. and an M.A. in Economics from the University of Colorado, and a B.A. in Economics from Arizona State University.

Carol Dahl took leave fall 2004 to finish her book and travel, including an African Overland tour. Carol Dahl's book, *International Energy Markets: Understanding Pricing, Policies, and Profit*, was published by Pennwell Press in March 2004.



Dahl and recent Ph.D. graduate, Sami Kamel, co-authored "The Economics of Hybrid Power Systems for Sustainable Desert Agriculture in Egypt," published in *Energy*, April 2004.

In 2004, Dahl worked in Washington, D.C., on an energy demand project for Aramco and BP. She is currently working on a study for the National Academy of Science on highway finance.

In 2003—2004, Dahl made presentations at the following conferences: Economic Outlook Conference, University of Michigan; North American Conference of the International Association for Energy Economics (IAEE), Mexico City (with Ph.D. student, D.P.Kar); and IAEE, Washington, D.C. (with M.S. student, Jeff Sanders).

SEB Seats New Officers

President:
Richard Tondreau
rtondrea@mines.edu

Vice President:
Jennifer Finley
jfinley@mines.edu

Secretary:
Courtney Lancaster
clancast@mines.edu

Treasurer:
Nick Klausner
nklausne@mines.edu

When/Where:
Bi-weekly Friday meetings
12:00 - 1:00 pm.
Engineering Hall, Room 211

Why:

- SEB is free
- SEB provides a free lunch
- SEB gives the opportunity to talk to leaders in their fields
- SEB is a great way to meet new people

For meeting dates and subjects see: <http://www.mines.edu/academic/econbus/seb.htm>.

Learn more about the Division of Economics and Business at www.mines.edu/academic/econbus/.

Outstanding Undergrads 2003—04 Award Winners

The class of 2003—2004 was the largest yet for our Division, with 31 students being awarded a B.S. in Economics. The growth of the program, which continues to house more than 100 economics majors, has ensured that this relatively new degree now has a firm place within the curriculum at CSM. To attest to the quality of our students, we are pleased that our EB undergrads received some of the most prestigious awards here at CSM.



Suzanne Pearson received high honors by being presented with the William D. Waltman 1899 Award provided by Wil-

liam Waltman and presented to the CSM graduate whose conduct and scholarship are nearly perfect and who has the most recognizable characteristics of a gentleman or lady during their entire collegiate career. Suzanne was also honored as the Most Outstanding Economics and Business Senior.

EB student **Andrew Getz** was named E-Days Engineer representing the Divi-

sion. Every year, the various departments on campus select students they believe have exceptional aptitude and talent in their chosen fields and who exemplify what it means to be a successful student at CSM.



Matthew Paulsen received The Wall Street Journal Recognition Award



given to an outstanding Economics and Business student. Paulsen received a commemorative award medallion, a one-year subscription to the WSJ, and a congratulatory letter. In addition, his name will be included in a full-page announcement in the WSJ. CSM will be listed in a full-page ad as well. The Division was given a walnut plaque that will accommodate brass nameplates of up to ten annual winners.

Vanessa Mitchell Awarded Churchill Scholarship

EB double major Vanessa Mitchell was awarded a Winston Churchill Foundation Scholarship to study next year at Churchill College, Cambridge University. This is the first time a CSM student has been recognized by the Foundation.



Mitchell graduated in May 2004 with a double major in Economics and in Geophysical Engineering. She was a student in the Guy T. McBride Honors Program at CSM. Vanessa entered CSM as class valedictorian of the Air Academy High School, a Colorado Boettcher Scholar, and a National Merit Scholar. She studied economics and management at the École National des Ponts et Chaussées in Paris.

RCF Scholarship & Internship

Resource Capital Funds (RCF), a private equity firm based in Denver, Colorado, and Perth, Australia, supports Mineral Economics through a year-long scholarship and internship for a graduate student in either mineral economics or mining engineering. RCF's private equity funds invest in development and growth-stage mining companies worldwide.

The internship is part-time during the academic year and then full-time in the summer. Last year, EB graduate student Jasper Bertisen was the RCF scholar. Recently, RCF announced that it is adding Jasper to its full-time staff in October. The previous year, EB student Joe Mazumdar was the recipient of the scholarship and internship. He now works for copper giant Phelps Dodge.

Two CSM alums are responsible for this opportunity: Ross Bhappu, 1986 Mineral Economics Ph.D. and member of the Division Visiting Committee, and Ryan Bennett, 1999 M.S. in Mining Engineering.

We thank RCF for its support!

EB Website Redesigned

The Division invites you to view our updated website. The site was designed for three primary audiences—prospective students, current students, and alumni. Many months of research and planning went into the new design. At each phase of the project, students and faculty alike were consulted. The new site is streamlined and designed to provide at-a-glance comprehensive lists of the resources and information current students, prospective students, employers, and alumni want to know.

An innovative addition is the weather report. If you are interested in the current weather reports for Golden, Colorado, log on to our web page. Chances are we are enjoying one of our 320 days of sunshine each year!

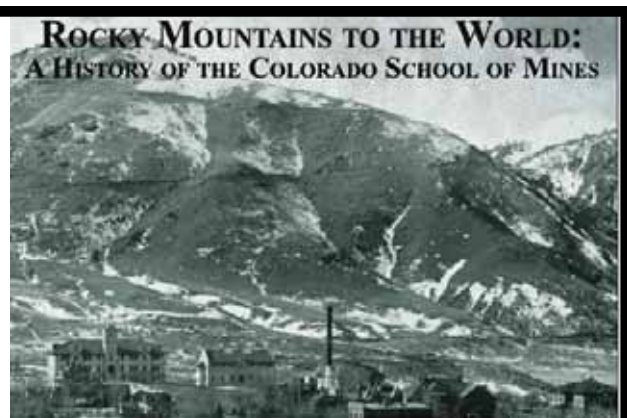
Visit us at
www.econbus.mines.edu

Looking for a job?? Visit our job listings at
<http://www.mines.edu/academic/econbus/jobs.htm#jobwebsites>

EB Thanks Its Supporters

Thank You to the recent donors listed below for their generosity to the Division. In addition, several EB faculty members made contributions.

Grant J. Bayless
 BP Foundation, Inc.
 Jerome and Rebecca Broussard
 Mark A. Erickson
 Veronica E. Garrido
 Sam Hewitt
 John H. Hill
 Laura R. Hill
 Bradley J. Horn
 Jon E. Kelly
 Edward D. LaFehr
 A. Scott Moore
 Donald B. Ratcliff
 John K. Reinsma
 M. Irene Rose
 Thomas D. Toole
 Viola Vestal Coulter Foundation
 Eric Douglas Wilson
 Linda Good Wilson



-Photo Circa 1930

Rocky Mountains to the World: A History of the Colorado School of Mines begins at the founding of Jarvis Hall in 1872, through the years as a territorial school, to the present. The 225-page book, relives CSM's most historical and important events and includes hundreds of photographs. The story includes an overview of the school's academic development that has earned it a solid reputation of excellence as well as the spirited traditions that have livened life beyond the classroom.

Prices start at \$42.95 (plus shipping and handling). For more information or to order, go to: www.csmaa.mines.edu/Alumni/history_book/ or call the Alumni Office at 303-273-3295 or 800-466-9488, ext. 3295.

Philippine Mining Reform

For 20 years IGRPM Director Jim Otto has played an active role in the development of the Philippine mining regulatory system. While employed by the United Nations in the 1980's, Otto assisted in the development of its present mining law. After adoption, Otto assisted in the development of the nation's model mining production sharing agreement and moderated negotiations between the government and industry for another type of foreign investor mining agreement (FTAA). During this time period the environmental movement grew steadily stronger and after a number of mine-related environmental incidents, began to specifically target the mining industry. A number of lawsuits were brought against mining companies and a negative social attitude toward mining emerged. Mineral sector invest-

ment came to a near standstill.

In an effort to better inform and take into account the views of civil society with regard to mining, the government, along with the World Bank, IMF, and others, held a number of major meetings, including a National Mining Conference in 2003. Otto's talk at this conference, "Creating a Positive Investment Climate to Generate National Benefits," helped change public attitude towards mining.

As a result of this change in attitude, the Philippine President announced that mining should again be a part of the national development effort. A new National Mineral Policy was developed, which can be viewed at <http://www.mgb.gov.ph>.

Washington, D.C. Marketing Trip

Program Manager Kathleen Feighny traveled to Washington DC in June 2004, to promote the Division of Economics and Business graduate programs. Feighny and Carol Dahl, who was already in Washington, D.C., on other business, met with the embassies of oil and gas producing and mineral rich countries, including the embassies of the Kingdom of Bahrain, Mexico, Mongolia, Norway, and Saudi Arabia. Many embassy officials were particularly interested in the joint degree program, Petroleum Economics and Management, between CSM and the Institut français du pétrole, located in Paris, France.

Feighny and Dahl also met with

international agencies that sponsor short-term training programs delivered in the United States and abroad. A few of these agencies also fund students to complete advanced degrees in the United States. Other meetings included AMIDEAST, The Asian Development Bank, The Energy Group of the Institute of International Education, and The World Bank. Overall, the meetings raised the visibility of the EB programs and strengthened CSM ties around the world.

While in Washington, D.C., Dahl and Feighny saw hundreds of stuffed pandas throughout the city. The pandas were part of a massive fund raiser to support the zoo.



"Father of Mineral Economics in Japan" Visits EB

Visiting Professor Takashi Nishiyama, accompanied by his wife Kakuko, spent most of



Professors Nishiyama and Tilton visit at Spring Fling Picnic

Spring 2004 as a visiting scholar in the Division.

Until his retirement last year, Nishiyama was a professor in the Graduate School of Energy Sciences at Kyoto University. He is a trained geologist, but has developed a strong interest in the field of mineral economics. One of his former students, Toshi Ito, who was a visiting scholar in the Division several years ago, refers to him as the "Father of Mineral Economics" in Japan.

Professor Nishiyama was John Tilton's host for three months at Kyoto University in 2002. He also joined Dr. Tilton at the Catholic University in Santiago, Chile, where Tilton was collaborating on a project examining trends over time in copper consumption in Japan.

Graham Davis Welcomes Visitors from Jakarta

Three employees of PT Antam Tbk., including Board Member Syahrir Ika, visited with Graham Davis in February 2004. PT Antam is a large, diversified Indonesian



Left to right, Syahrir Ika, Professor Graham Davis, Carry Mumbunan, and Iwan Trawan

mining company with a growing interest in sustainable mining. While at CSM, the PT Antam group also met with the CSM Graduate School and the Metallurgical & Materials

Engineering Department. They were investigating the prospect of sending management-level employees to CSM for training on sustainability issues. Antam currently re-invests considerable portions of its revenues to spur the development of community-based businesses within the company's mining regions and wants to do more in this regard in line with international sustainability practices and guidelines.

Graham Davis conducts research on mining and sustainable development, with recent findings that mineral exporting economies tend to have lower poverty levels than non-mineral economies.

EB Staff Member Honored

Kathleen Feighny, EB Program Manager, received honors for outstanding contribution to the CSM community. Feighny received the Connected Learning Community Award which recognizes the achievements of Administrative Faculty at CSM. Winners were announced at the Spring 2004 Administrative Faculty luncheon.



Feighny received a \$500 award to spend on professional development.

Ms. Feighny was also elected to a 2-year seat on the Administrative Faculty Council representing Academic Affairs.

Congratulations, Kathleen!

Senior Government Officer Training Program

The Institute for Global Resources Policy and Management (IGRPM), housed within the Division of Economics and Business, is continuing its program of training senior-level mining sector policy makers and regulators. Under the direction of IGRPM Director Jim Otto and with funding assistance from the World Bank, eight Ethiopian government officers spent three weeks on campus at CSM. They were instructed by a multidisciplinary team including Fred Banta (Mining), Robert Ferriter (Mining), Jim Otto (IGRPM), Tibor Rozgonyi (Mining), John Stermole (DU & EB), and Frank Stermole (EB). During the course the officers studied a broad range of subjects in-

cluding mineral sector policies, mining laws, mine taxation, international mineral investment, economic decision-making, mine health and safety, reclamation, and environmental protection.

The course is part of a multi-year Ethiopian effort to reform and strengthen the country's mineral sector regulatory system.

A similar but more focused effort was completed in 2003 for government and mining company officers from Trinidad and Tobago. In that program, the primary focus was on the options for reforming the quarry sector. The course looked at ways in which the quasi-governmental national quarry industry could

move toward greater financial and managerial independence. The series of classes set the framework for more Government training programs. IGRPM custom tailors classes on mining and the environment to fit the individual needs of various governments around the world. The program has been a joint initiative by IGRPM and Special Programs and Continuing Education (SPACE) for the past eight years. During that time period, over 200 government officers from more than 25 countries have participated.

Alumni Corner

James Hesketh, B.S. 1979, M.S. ME 1987, has been appointed Chief Executive of Toronto-listed Scorpio Mining Corp. Mr. Hesketh has 25 years of experience in mining engineering and mineral economics and was most recently Vice President of RMB Resources Ltd, the natural resources division of the South African banking group FirstRand. Hesketh will add to Scorpio's expertise in the areas of finance, acquisition, development, operations, and corporate governance.

Hamonangan Hutabarat, Ph.D. ME 1979, is a Consultant for C.P.I.S. in Indonesia.

Rita Beale, M.S. ME 1987, was recently appointed Vice President, Energy Services, for First Choice Power based in Fort Worth, TX.

Purnomo Yusgiantoro, M.S. ME 1987 and Ph.D. ME 1988, is Minister of Energy and Mineral Resources in the Indonesian Department of Mines & Energy. He is also serving as Secretary General of the Organization of Petroleum Exporting Countries.

Mindy Arbuckle, B.S. 2001, is working for T.A. Myers & Co. in Arvada, CO. The CPA firm focuses on analytical research for corporate fraud causes.

Tino A. Abdul Rachman, M.S. ME 1992, is Supervisor of the Institutional Relations & Development Department for UP.T. Freeport Indonesia.

Kurtubi, M.S. ME 1998 and Ph.D. ME 1998, is Chief of Economics and Head of Strategic Development for Pertamina in Indonesia.

Vikram Singh, M.S. IFP 2001, is moving to Boston to join the energy practice of Charles River Associates (CRA) as a Consulting Associate. Singh says that he is excited to

make this coast-to-coast move.

Eva Gomez, M.S. ME 2002, was hired by Gaffney, Cline & Associates in Houston, TX. Gaffney, Cline & Associates specialize in technical and managerial advice to the oil and gas industry worldwide.

Dave Loring, M.S. ETM 2002, is a ventilation engineer for Mine Ventilation Services in Fresno, CA. Loring has been involved in numerous surveys and studies in Colorado, Utah, New Mexico, Illinois, and Kentucky. His latest project is a uranium mine in Saskatchewan. When not working, Loring does a lot of climbing in the Sierras and Yosemite. He vacationed in Chamonix, France where he climbed several routes on Mont Blanc.

Eduardo Morillo, M.S. ME 2002, is working for Flowserve Corporation as a Cost Accountant in Venezuela. He and Sofia Morales are the proud parents of a baby boy.

Remco Meeuwis, M.S. ME 2003, is finishing his degree at Delft University. Remco interned at Billiton where he worked in the Energy Marketing and Trading Department. Remco worked on a power price forecasting model for Spain. He says that the experience was very interesting and "I have used many of the skills that I studied at Mines!"

Charlie Douglas-Hamilton, M.S. ME 2003, is working for Axmin Inc., as an exploration geologist. Axmin is a privately-owned British gold exploration company.

John Reinsma, M.S. ME 2003, is working for Accenture Consulting as an analyst/economist in the Marketing Sciences group based in Chicago.

Elfije Salihu, M.S. ME 2003, is currently working in the Federal Consulting Division of Accenture in

Share your news!

Thank you for keeping us informed. We will include your update in the next issue of **EB Spotlight**. E-mail us at csanford@mines.edu.

Washington, D.C.

Peter McCarty, B.S. 2003, is a Power Analyst for Energy Velocity. McCarty says that Energy Velocity is a brand new company and adds "it's a little ironic that my senior design project about start-up companies is actually hitting home..."

Doug Klein, M.S. ETM 2003, is an Applications Engineer working for Advanced Coordinate Technology. Recently, he contacted EB to hire one of our graduates for the Arizona office. Thanks, Doug!

Peter Howie, Ph.D. 2003, is teaching in the Economics and Strategic Research Department of the Kazakhstan Institute of Management in Kazakhstan. Howie and **Zauresh Atakantova, Ph.D. 2002**, are the proud parents of a baby boy.

Bradley Sutton, B.S. 2003, is trading futures for the TransMarket-Group at the Chicago Board of Trade.

Daniela Lavrador, M.S. IFP 2003, works for Beicip-Franlab as a petroleum engineer consultant. Beicip-Franlab is a consulting firm and a geoscience software editor serving the oil and gas industry.

James Read, M.S. ETM 2004, is Operations Manager for Service Magic, Inc., based in Golden, CO. Service Magic uses the web to connect homeowners to prescreened service professionals.

Congratulations 2003-2004 Graduates

Ph.D., Mineral Economics

Thitisak Boonpramote

Barbara Curry

Sami M. Kamel Mohamed

M.S., Mineral Economics

Alfred T. Aird

Hermann Fils Logsend Bayiha

Jasper Bertisen

Bradley Roger Blair

Joshua Dale Crumb

Charles Douglas-Hamilton

Evelyn Novisi Fiadonu

KiraBeth Jeffery

Miharu Kanai

Daniela Azevedo Neto Lavrador

Ling Liu

Yris Olaya Morales

Elfije Salihi

Fabio Enrique Sanabria Serrano

Xuan S. Tam

Anna K. Zlotkowska

M.S., Engineering and Technology Management

Paul Bartos

Kathryn Elizabeth Greenarch Brown

Scott Richard Brown

Joshua Lee Burgher

Justin Henry Carlson

Ibiso Victor Chieduko

Albert Jay Clark

Nathaniel Tyson Colman

Ramesh Dorairajan

Christopher Morris Duncan

Justin Robert Gale

Justin Bryan Gollither

Matthew P. Goman

Christopher James Good

Andrew Lawrence Headley

Ryan David Helmer

Zachary Hal Herrington

Daniel Alvin Huber

Robert Charles Jones

Stephen Mauricio Kendrick

Chonnakarn Leeraphan

Megan Louise Lovelace

Christian Larissa Marsh

Brook Aberra Molla

Gwendolyn Fae Owen

Begona Ruiz Pineiro

Daniel Edward Novembre

James Harold Read

Harald Reinertsen

Rebecca Lee Rinehart

Pierre Lewis Sarnow

Taylor Tatsch Shively

Michael Buchanan Swartzlander

Jeremy Joseph Yarrow

Eric Douglas Wilson

B.S., Economics

Bader Al Mana

Kevin Lee Baird

Benjamin Scott Belknap

Gregory Wayne Brink

Brian James Buller

Ricky Chan

Emily Michelle Cillessen

Tepper Sue Cundith

Keith Christopher Dalke

Seth Alan Feinberg

Timothy James Fry

Andrew Paul Getz

Traci Dawn Gomez

Jesus Guadalupe Gutierrez

Ruth Jee Seon Han

James Robert Hayes

Anthony Joseph Hill

Nathan Ryan Jackson

Steven Manuel Juarez

Casey Michael Kraft

Glenn L. Lau

Lindsey Ann Mitchell

Vanessa Renae Mitchell

Peter Dominic Montano

Matthew Ross Paulsen

Suzanne Lea Pearson

Kumail Abdulmir Saied

Jarred Zane Tarkington

Ryan Victor Vandamme

Thomas Robert Williams

Margarita Yakupova

Recognition of Excellence

Jasper Bertisen received the William Jesse Coulter Award for outstanding academic achievement in the Mineral Economics Program. **Catherine Keske-Handley** and **Kahwa Douguih** were co-recipients of the Hubert and Sarah Riser Award in the Mineral Economics Program for all around performance. **Megan Lovelace** and **Christian Marsh** were co-winners of the Broussard Award given for outstanding academic achievement in ETM.

The Coulter Award for the 2003 academic year went to Waleed Al-

Otaibi. The winner for 2004 was Vanessa Mitchell. This award is given each August to the undergraduate economics student with the highest cumulative GPA. Both winners received a check for \$500 and their names were placed on the Coulter Award plaque housed in the Division office.

The 2003—04 teaching awards for excellence as voted by the students went to **Alexandra Newman** for Engineering and Technology Management; **John Tilton** for Mineral Economics; and **John Stermole** for Economics. **John Stermole** was

also voted the EB Outstanding Faculty Member by CSM graduating seniors.

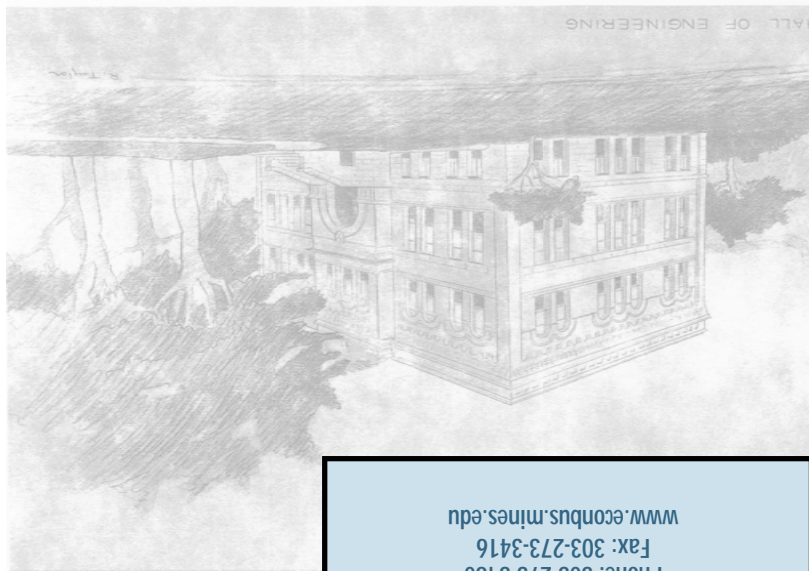


2003—04 Award Winners

For more than three decades, the Division of Economics and Business at the Colorado School of Mines has prepared students to become leaders in industry and government.



For more information, contact
Kathleen Feighny at 303.273.3979 or kfeighny@mines.edu.



Colorado School of Mines
Division of Economics and Business
816 15th Street
Engineering Hall
Golden, CO 80401-1887
Phone: 303-273-3480
Fax: 303-273-3416
www.econbus.mines.edu