



COLORADO SCHOOL OF MINES

Inside Arthur Lakes LIBRARY

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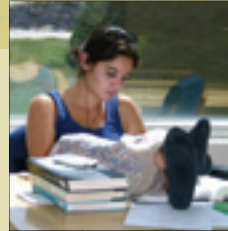
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Arthur Lakes Library

COLORADO SCHOOL OF MINES

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info! EPICS



Trailhead Groups

by Cathy Van Tassel

Recent alumni may recall that Design EPICS (Engineering Practices Introductory Course Sequence) is a series of courses designed to help strengthen a student's ability to resolve open ended problems in a team environment. Problems are presented to student teams as projects. As the students work on these projects, they learn fundamental skills vital to their success as engineers.

This semester's Design EPICS classes will be the first to use the CSM Groups function of Trailhead, CSM's web portal. This innovative technology will allow students to share images, files, web links, as well as news about their EPICS projects and engineering designs. The Info! EPICS group will serve as a useful tool for students, as EPICS relies heavily on collaboration.

What is the Fall 2006 project?

Dr. Bob Knecht describes the Fall 2006 project: "Teams are requested to develop conceptual design combined with new capabilities or technologies for an excavation system to mine the soils of the moon or Mars. According to Mike Duke, former NASA curator and CSM research professor, the human exploration of Mars is just on the edge of technological feasibility but would currently cost more than most people would consider reasonable and would be risky for the crew." One way to reduce mission costs would be to use resources available on Mars to reduce the transport payload. Additionally, placing reserve materials (such as rocket propellant) on Mars before humans arrive would reduce some of the risk.

What is Trailhead?

Trailhead is the CSM web portal, providing personalized access to web services for students, faculty, and staff. All registered students, faculty, and staff have access to course information, group tools, campus life, work life, personal calendars, email, and more -- anytime, anywhere. Trailhead is a work in progress; new services, functionality, and information will be added over time. The tab and channel layout is similar to many other portals such as MyYahoo™.

<http://trailhead.mines.edu>



Arthur Lakes Library

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*Our email addresses can be found at:
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crown jewels

Mining: Romance and Travel

by Robert Sorgenfrei

The Arthur Lakes Library is the proud home of the Russell L. & Lyn Wood Mining History Archive. Started in 1995 with the vision, passion and generous support of Russ & Lyn Wood, the Mining History Archive has an extensive book collection, rare mining journals, mine reports, mining equipment catalogs, manuscript collections, images, maps and other primary source material.

Rickard, T. A. (Thomas Arthur), 1864-1953.

***The Romance of Mining.* Toronto: Macmillan, 1947.**



T. A. Rickard was a British mining engineer who came to the United States early in his career. Rickard traveled the world inspecting and evaluating mining properties, but maintained his home in the United States and later Canada. Rickard personified the mining engineer of the

19th century, a versatile, Renaissance man/gentleman-scholar that was as comfortable underground as in a fashionable Parisian restaurant. He was, for a time, Commissioner of Mining for the State of Colorado, editor of both *Engineering and Mining Journal* and *Mining and Scientific Press*, and the author of more than 30 books. The books he wrote range from highly technical books on topics such as stamp mills and the flotation process to travelogues and historic treatises. Rickard even wrote a book on technical writing that students today would still do well to consult. I have selected the last book he wrote for this list of great library books, entitled *The Romance of Mining*. It is a beautifully written history of mining covering the entire globe and from prehistoric times to the early 20th century. Rickard's skills in writing make him probably the most readable of authors who were mining engineers. *The Romance of Mining* remains a mining history classic written by one of the most knowledgeable men in the field, who himself made mining history.

Marcy, Randolph Barnes, 1812-1887.
The Prairie Traveler: A Handbook for Overland Expeditions; With Illustrations and Itineraries of the Principal Routes between the Mississippi and the Pacific.
New York: Harper & Brothers, 1859.



Randolph Marcy graduated from West Point in 1832 and he slowly rose up the ranks. In the early 1850's, Marcy was given command of a seventy-man expedition exploring the Great Plains in search of the source of the Red River and to "collect and report everything that may be useful and interesting". Marcy's report, *Exploration of the Red River of Louisiana, In the Year 1852 ... With Report on the Natural History of the Country* was supplemented by attractive lithographs and has become a classic in Western American Exploration. Subsequently, Marcy surveyed Indian Reservations in northern and western Texas and explored headwaters of the Wichita and Brazos Rivers. During the winter of 1857-58, he gained national fame by relieving units under the command of Albert Sidney Johnston, who were stranded in Utah without supplies.



Marcy was then commissioned by the War Department to write a semi-official guidebook to the Great Plains that could be used by people and parties attempting to travel there. *The Prairie Traveler* was the result, published in 1859, just in time to be used by gold seekers

heading to Colorado to take part in the gold rush. The book is a compendium of useful advice and information on what equipment to bring, how to deal with Native American tribes, how to organize a wagon train, and has detailed information on 34 of the most important overland trails on the Great Plains. Anyone seeking an understanding of how a wagon train went west should start with this book. It is the best way to see how gold seekers with "Pikes Peak or Bust" emblazoned on their wagons made it to Colorado.

à la carte Menu

by Jennifer Ward & Lisa Dunn

information literacy n. **1.** Possession of the practical skills needed to locate, evaluate, and use information to support lifelong learning. **2.** Development of critical thinking skills to reflect on the nature of information and its impact on society.

The Arthur Lakes Library Reference staff is bringing information literacy to the Mines community. The Library offers an entire list of information literacy sessions that professors can schedule for their classes. To help instructors determine what their students might need or benefit from, the Reference staff has put together an Instruction a la Carte Menu that clearly describes each session, including the amount of time required for each topic, and who the target audience is. By looking over the menu, professors can select appropriate instruction that will benefit their students. Instruction topics range from short 25 minute sessions addressing Catalyst, the Library catalog, Prospector, the regional catalog, and Gold Rush, the full-text e-journal article finder, to hour long sessions covering more advanced topics, such as using literature, specialized databases, and the Web.

Not only can beginning students benefit from the more general topics, but more advanced researchers can take advantage of this instruction as well. The sessions on specialized databases can help researchers find information that relates specifically to their field of study. For some, the special topics sessions may better suit them. These topics range from technical research reports to patents or maps.

In an effort to educate as many in the Community as possible, the Library provides these resources in multiple formats. These sessions can be tailored for individuals, small groups, demonstrations, lectures, informal brown bag sessions, workshops, or tours. And to make it as accessible and convenient as possible, the Library staff will travel to you for certain types of instruction.

For more information about Information Literacy sessions, please visit the Library's webpage: www.mines.edu/library -> Reference Services -> select "Information Literacy" under the "What do you need help with?" section.

literacy

As a part of the information literacy program, the Reference staff has scheduled Brown Bag Lunch sessions during the noon hour; there will be two sessions each semester.

Brown Bag Lunch Series Held this Fall

Date	Topic	Details
Thursday, Sept. 21	Gold Rush	<ul style="list-style-type: none">• Gold Rush is our electronic content manager.• Learn how to find journal articles in digital format.• Intended audience: graduate students
Thursday, Nov. 9	Basic Research Skills	<ul style="list-style-type: none">• Suggestions and tips for how to start researching and where to look (i.e. selecting an appropriate database)• Discussion on why evaluating information is important and suggestions and tips on how to evaluate information• Discussion on why citing sources is important and how to cite sources properly• Intended audience: undergraduate students

Brown Bag Lunch Spring Series

Date	Topic	Details
Thursday, Feb. 1	Job Research	<ul style="list-style-type: none">• What resources are useful to find information about your potential employer• Useful resources to find information about the potential area you could be living in (i.e. salary comparison, cost of living, recreational activities, etc.)• Intended audience: graduating students
Thursday, Mar. 29	Web of Science	<ul style="list-style-type: none">• Web of Science (a.k.a Science Citation Index) is an electronic database that provides access to the literature in applied science and engineering• Seminar presented by Liz Pysar, customer trainer with Thomson Scientific• Learn tips to effectively search Web of Science• Learn more about finding who cited who in Web of Science

making an impact

McNulty's Gifts Strengthen Archival and Metallurgy Collections

by Joanne V. Lerud-Heck

Dr. and Mrs. Terence (PhD. MME '67) McNulty recently gave the Library a gift of unendowed funds for immediate collection development. As Terry and Carol considered their most recent gift to the Library, they carefully crafted it to reflect their interests.

The majority of their gift is designated for acquiring monographs in the metallurgy discipline. While the Library always seeks to work with faculty members in the selection process, Terry and Carol have enlisted the help of Dr. Patrick Taylor from the Metallurgical and Materials Engineering Department to assure selections are those that students and faculty need most. The remaining portion of the gift was designated for use in the Russell L. and Lyn Wood Mining History Archive; a part of the Library they both enjoy and have supported for a number of years.

While the Library actively seeks to increase its endowments to ensure funds for future needs, the McNulty's decision not to endow their gift gives the Library the opportunity to purchase much needed items right now. Some of the new titles added to the archival collection are listed below:

Hamilton, Leonidas Le Cenci, *Hamilton's Mexican Handbook* (1882)

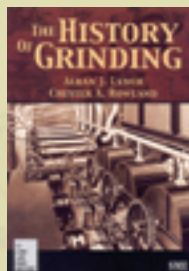
Ingersoll, Ernest, *Knocking Around the Rockies* (Harper & Bros., 1883)

Some of the books added to the MME Collection include:

Kawatra, S. Komar (ed.), *Advances in Comminution* (Society of Mining, Metallurgy, and Exploration, Inc., 2006)

Adams, Mike D. (ed.), *Advances in Gold Ore Processing* (Elsevier Science Publishing Company, 2006)

Lynch, Alban J. & Chester A. Rowland, *The History of Grinding* (Society of Mining, Metallurgy, and Exploration, Inc., 2005)



During his career, Terry has worked on various aspects of ore treatment for many different minerals and metals. He is currently President of T. P. McNulty & Associates, Inc., a consulting firm for the mineral and chemical industries. TPMA specializes in assessing operating properties and analyzing opportunities for cost reduction, performance improvement, and acquisition for brokering technologies. Terry graduated from Stanford University with a B.S. in Chemical Engineering in 1961, received his M.S. in Metallurgical Engineering from Montana College of Mineral Science in 1963, and acquired his PhD in Metallurgical Engineering in 1967 from the Colorado School of Mines.



Terry remains very involved with the Colorado School of Mines. He has served as member of the Board of Trustees (1989-1993) and is currently serving on the Arthur Lakes Library Visiting Committee, as well as the Visiting Committee for the MME Department. CSM honored Terry with the Distinguished Achievement Medal in 1989. Both Mines and Montana Tech have conferred Distinguished Alumnus awards on Terry. In 2005, Terry was elected to the National Academy of Engineering (NAE); election to NAE is one of the highest professional distinctions accorded an engineer. Terry recently retired from the Board of Directors of Hazen Research, Inc. after serving as an outside director for 15 years and as chairman for the last 9 years. Terry and Carol make their home in Tucson, AZ, and frequently spend their summers in Colorado.

You Can Make an Impact in Your Own Way

Contributions help make the Library a world-class source for information in the study of energy, the Earth's subsurface resources, advanced materials, the environment and engineering education.

- Donate today by using the enclosed postage paid envelope.
- Give the gift of a book in honor or memory of a loved one.
- Include the Arthur Lakes Library in your estate planning.
- Make a leadership gift to support a special project, collection or service.
- Visit <http://www.mines.edu/library/giving>

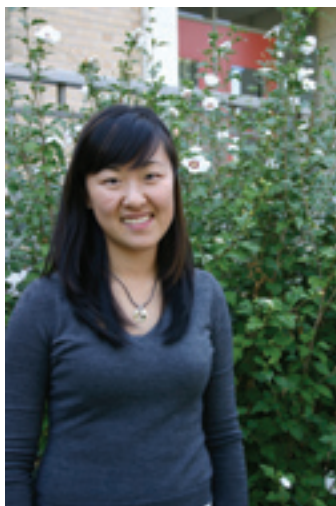
Please contact Joanne V. Lerud-Heck to discuss how you can make an impact. Call (303)273-3690 or email jlerud@mines.edu

student spotlight

Jen Cho, Diva Extraordinaire

by Wendy Shortridge

Trivia question: What Library student assistant's name rhymes with a famous celebrity's nickname? Jen Cho. Like J-Lo, Jen Cho is a Diva. That is, she's a member of the Mines campus A Cappella singing group, the Divas. Unlike J-Lo, Jen Cho is also an aspiring chemical engineer, campus leader and coffee cart barista at the Arthur Lakes Library's Book & Brew.



During her first three years at Mines, Jen worked at the Circulation Desk, greeting patrons with a cheery smile and helpful attitude. During her sophomore and junior years, Jen squeezed her library work in between a demanding academic schedule and serving two years as a Resident Assistant (RA); surviving shaving cream pranks from the freshman. Jen's sunny disposition has carried her through patron inquiries and grueling finals. In addition, Jen is the Senior Class President, Vice-President of the Asian Student Association, and serving on the Student Advisory Board of the Minority Engineering Program (MEP) for 2006-2007.

Jen is an active participant in Mines' intramural sports including flag football and volleyball. Her team (with an average height of 5'1") won the women's bracket in volleyball. By the way, Jen's was the only team entered and won by default. Jen's sportsmanship and lighthearted sense of humor endears her to Library and campus fans alike.

In the summer of 2005, Jen studied in Spain for two months in Mines' Study Abroad program. Jen considers that experience the highlight of her college career. "I learned so much more beyond the textbooks. It was a life lesson."

Jen will graduate with a bachelor's degree in Chemical Engineering in May 2007. She is the first person in her family to receive a college degree in the United States. Her proud parents are college graduates from South Korea. Jen's friendly smile and high energy will be sorely missed by the Library staff and patrons.

Christine and Linda Join the Library Staff

by Jennifer Ward



The Library is pleased to welcome two new staff members to the Government Publications section. Ms. Linda DeFord and Ms. Christine Baker joined the staff during the summer of 2006.

Linda DeFord, a Denver native, joined the Government Publications and Maps section of the Library as a Library Technician. She processes government publications

and maps, performs database maintenance, and supervises student employees. Linda has worked in various technical capacities at libraries for the past 11 years.

Prior to working in libraries, Ms. DeFord earned her B.S. in Zoology from CSU before completing an M.S. in Genetics at Penn State. She worked in molecular biology and biomedical research for several years, but chose to leave that career when ethical issues began to surface in the 1980s.

Away from work, Linda enjoys watching and reading about baseball. She also enjoys spending time with her teenage daughter. Linda would take any opportunity to travel. She has a particular love for Scotland, where she lived for a short time.

Christine Baker joined the CSM faculty as an Assistant Librarian, with a primary assignment in cataloging government publications. In addition to cataloging, Ms. Baker will provide reference services. Christine has a real passion for improving access to library materials, particularly older government publications.

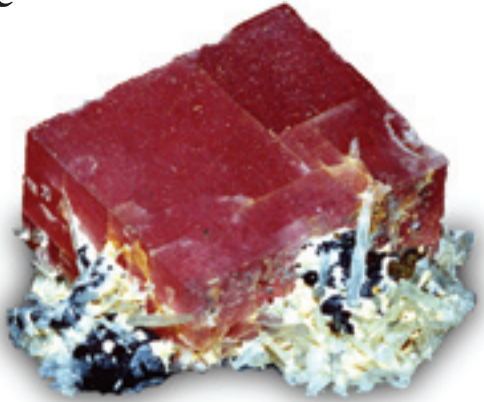
Christine earned a B.A. in Elementary Education from the University of Massachusetts at Amherst and an M.L.S. from Emporia State University. In her free time, Christine enjoys spending time with her husband, Todd, and son, Cade. Christine also likes spending time outside; she loves cycling, hiking, skiing, and other winter sports.

uniquely ours

Databases Enhance Access to Special Collections

by Cathy Van Tassel

The Arthur Lakes Library is privileged to be the repository for some unique and exciting collections. Over the years, library staff have worked diligently to catalog distinctive items and develop specialized databases for the more exclusive collections held in our Library. To date, the Library has created and upgraded special databases for the Tell Ertl Oil Shale Repository, the Information Center for Ropeway Studies, graphic images held by the Library and others, and literature on mining in Colorado.



Rhodochrosite with quartz and sulfides, Sweet Home Mine, Park County, Colorado

The Tell Ertl Oil Shale Repository Database

provides access to information about the Tell Ertl Oil Shale Collection's resources on the development of the oil shale industry, with an emphasis on the western U.S. Materials in the collection include manuscripts, maps, and photographs. Access the Tell Ertl Database by using the Library's webpage: www.mines.edu/library -> Library Catalogs -> select "Tell Ertl Catalog".



Amazonite, Teller County, Colorado

The **Ropeway Database** is the online catalog for the Information Center for Ropeway Studies. The database contains information about journal articles, symposia, books, reports, handbooks, manufacturers' catalogs, and other resources pertaining to the history, theory, design, and operation of ropeway systems. Access the Ropeway Database by using the Library's webpage: www.mines.edu/library -> Library Catalogs -> select "Ropeway Catalog".

special collections

The **Image Database** provides access to thousands of historical and recent images of mining, ropeways, Colorado scenery, and the Colorado School of Mines campus. The Digital Image Collection was created to improve access to and extend awareness of our image collections, all without jeopardizing preservation of the



original materials. These images represent photographs and other graphic formats held by the Arthur Lakes Library, contributing individuals, and the National Mining Hall of Fame and Museum in Leadville, Colorado. We are actively seeking additions to the Digital Image Collection, particularly images of life at CSM through the years and images of mining in the Western United States. If you have print or digital photographs you would like to donate, please contact Cathy Van Tassel at 303-273-3645 or cvantass@mines.edu. Access the Image Database by using the Library's webpage: www.mines.edu/library -> Library Catalogs -> select "Images Catalog".

The **Colorado Mining Database**, which is under construction, provides access to literature on mining activities in Colorado from the late 1800s to the present. Users may search for mine and claim names, such as "smuggler mine" or "stray horse claim" or mining in a specific area, such as "Gold Hill" or "Delta County". The database includes citations for U.S. and state documents, maps, journal articles, and technical reports. Because the database is actively under construction, new citations are being added, check back often. Access the Image Database by using the Library's webpage: www.mines.edu/library -> Databases & E-pubs. Select "Databases A-Z" and type Mining in the search box.

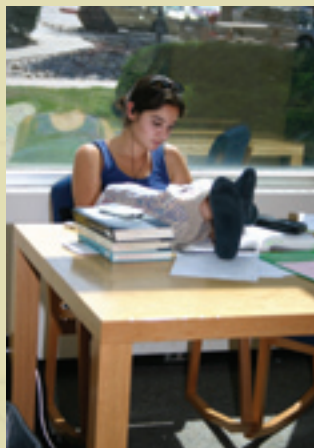
Students and researchers use these databases to access information they need in their course of studies. Each of the above databases is a work in progress; new records are added as we have the resources to acquire and process more collections in these specialized areas.

not just space

Library as Place

by Jennifer Ward & Christine Baker

The Arthur Lakes Library is more than a provider of information resources that support learning. Centrally located on the Mines campus, the Library serves as a great community space that enables students to study, socialize, conduct meetings, and access electronic resources. In fact, despite the increasing amount of resources available through remote access, students still make their way to the Library in record numbers.



Quiet study rooms and areas are available, as are large tables for group study and discussion. Our soft sofas and chairs invite quiet reading or conversation. The Book & Brew coffee cart area provides an opportunity for a study break or meeting with friends and colleagues. Faculty and students are invited in for our Brown Bag Lunch series and information sessions.



The Arthur Lakes Library accommodates students, faculty, staff, as well as community members and local consultants. Some patrons seek a quiet place to read and conduct research while others visit the Library to view its special holdings in the Russell L. and Lyn Wood Mining History

Archive and the Information Center for Ropeway Studies.

The Library is a place that fosters community with concerts, art shows, and poetry readings. These activities allow the Mines community and the public to gather socially, enjoy music and art, and create opportunities to showcase and enjoy the talents of others! These events draw a diverse crowd of people who might not otherwise visit the Library.

The Arthur Lakes Library continues to work with architects to develop its program plan with a desire to build a new library that will meet users' needs well into the future.

donations 2006

April 2006 – October 2006

Enhancement of the collections and services of the Arthur Lakes Library are made possible through generous contributions of individuals, corporations and foundations. We are especially grateful to those listed (to the right) for remembering the Arthur Lakes Library in their giving.

Donating Materials

The collections of the Arthur Lakes Library are also enhanced by donations of library materials. Materials are evaluated for their appropriateness to our collection; some materials are added to our collection, while others support the Library by being sold at our Annual Book Sale. If you would like to learn more about donating materials, please contact Robert Sorgenfrei at 303-384-2075 or email rsorgenf@mines.edu

Mr. and Mrs. Stanley Dempsey

Mr. Rick T. Hildebrand

Mr. Roger A. Hooten

Dr. Todd K. Jones and Dr. E. Tracy Turner-Jones

Ms. Louise R. Seeton
- in Honor of Frank Seeton, '47

Mr. Robert W. Meader

Mr. Steven G. Fryberger

Mr. Thomas C. Pool

Dr. Stephen A. Sonnenberg
- Subscription in perpetuity to
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- in Memory of
Joshua Linville-Engler

Johnson & Johnson Family of Companies
- matching gift for Dr. Todd K. Jones
& Dr. E. Tracy Turner-Jones

Marathon Oil Company Foundation, Inc.
- matching gifts for Robert W. Meader
& David B. MacKenzie

Give a gift without ever writing us a check!

In the summer of 2006, Dr. Stephen Sonnenberg, PhD GE '81, gave a lifetime endowment gift to the American Association of Petroleum Geologists (AAPG) Foundation. Dr. Sonnenberg's gift to the Foundation allows the Library to receive a subscription to AAPG's Datapages archival search online in perpetuity. His thoughtful gift will allow us to use the funds allocated for Datapages access elsewhere each year to purchase books or journals we might not otherwise have been able to afford.

Would your professional association or society be interested in exploring a similar option?

responsibility

In keeping with environmentally friendly practices, this newsletter was printed on 100% recycled paper using vegetable-based inks. The size and mailing method were chosen to minimize waste. Using recycled fiber takes about 1.4 tons out of the land fill to produce 1.0 tons of recycled fiber. In addition less water, fewer chemicals and less energy are required.

Please Recycle. Preserving the delicate balance of our ecology requires a commitment from all of us. Recycling is an effective way to conserve our resources and protect our environment.

Design by Medulla, a graphic design studio dedicated to providing quality services. From creative direction to artful execution, we take each project to the next level through thoughtful and completely authentic solutions. <www.medullastudio.com>

Photography and editorial assistance by Christine Baker, Pamela Blome, Wendy Shortridge, Cathy Van Tassel and Jennifer Ward.

MORGAN

(Left to Right) Joanne V. Lemud-Heck, Director of the Library; Jennifer Ward, Administrative Assistant; Cathy Van Tassel, Program Assistant



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