



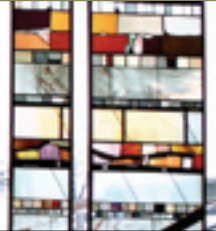
COLORADO SCHOOL OF MINES

# Inside Arthur Lakes LIBRARY

4



7



8



10



<i>Electronic Books</i>	2
<i>Library Directory</i>	3
<i>Crown Jewels from the Archive</i>	4
<i>Petroleum Industry Collection Grows</i>	6
<i>Artwork Gift Enhances the Library</i>	7
<i>Dempseys' Gifts Provide for the Future</i>	8
<i>Student Spotlight</i>	10
<i>Spotlight — Visiting Committee</i>	12
<i>Gifts Help Library Meet Needs</i>	14
<i>Donations 2005 &amp; 2006</i>	15

in this issue



Arthur Lakes Library

COLORADO SCHOOL OF MINES

Volume 3, Issue 2  
Spring 2006

# ebooks

## Electronic Books: Popular, reliable, and convenient

*E-books are full-text, searchable, accessible at all hours, up to date, hard to lose, and easy to find – in Catalyst, look for records marked “electronic resource.” In support of CSM’s highly technical curriculum, the Arthur Lakes Library subscribes to several e-book packages that provide strong technical content, including:*

**Knovel Library:** over 700 essential, authoritative reference books and databases in chemistry, materials, and engineering. Content, including numerical data, is fully searchable, or can be browsed via Table of Contents. Embedded analysis tools enable users to analyze data and export it into their workflow. Titles within our Knovel subscription include classics, e.g., Perry’s Chemical Engineers’ Handbook (7th Edition) and Lange’s Handbook of Chemistry (15th Edition), as well as titles in new research areas, e.g., Springer Handbook of Nanotechnology (2004).

**BOOKS 24x7 ITPro Collection:** over 2200 digitized “best-in-class” reference books in computer and information technology, from publishers such as Microsoft Press, Osborne/McGraw Hill, Artech House and many others. Topics include software engineering, enterprise computing, and information security.

**ASM Handbooks Online:** the complete content of 20 ASM Handbooks and 2 ASM Desk Editions that can be searched or browsed. A companion database, the ASM Alloy Center, enables searching across ASM property data, performance charts, and processing guidelines for specific metals and alloys.

For more information, contact the Library Reference Desk, (303) 273-3694 or [libref@mines.edu](mailto:libref@mines.edu)

<http://www.mines.edu/library/>

## what you’ll find most helpful

- Renew your books online
- Search electronic databases
- Access full-text articles & e-books
- Use the “Ask a Librarian” form



# Arthur Lakes Library

## COLORADO SCHOOL OF MINES

1400 Illinois Street  
Golden, Colorado 80401  
Phone: (303) 273-3911  
Fax: (303) 273-3199  
[www.mines.edu/library](http://www.mines.edu/library)

*For hours call us or visit our web site*

### Assistance

**Circulation:** (303) 273-3698  
**Reference Desk:** (303) 273-3694  
**Government Publications:** (303) 273-3695  
**Map Room:** (303) 273-3697

### Circulation

**Public Services Librarian**  
Patricia Andersen (303) 273-3652  
**Library Technician**  
Roz Parker Yocom (303) 273-3022  
**Library Technician**  
Timothy Ramstetter (303) 273-3698  
**Library Technician**  
Wendy Shortridge (303) 273-3698

### Collection Management

**Collection Development Librarian & Archivist**  
Robert Sorgenfrei (303) 384-2075  
**Monograph Catalog Librarian**  
Pamela Blome (303) 273-3691  
**Collections Conservator**  
Margaret Katz (303) 273-3693  
**Head of Serials**  
Stephen Katz (303) 273-3024  
**Library Technician**  
Craig Robbins (303) 273-3692

### Computer Services

**Systems Librarian**  
Laura Guy (303) 384-2355

## We've Got Mail!

*Our email addresses can be found at  
[www.mines.edu/library/staff.html](http://www.mines.edu/library/staff.html)  
or from the home page under  
"about us" > "directory".*

# directory



### Information Delivery Services

**Library Technician**  
Sherry Muniz (303) 273-3699  
**Library Technician**  
Beth Zecca (303) 273-3899

### Map Room/Government Publications

**Map Librarian**  
Christopher J.J. Thiry (303) 273-3697  
**Government Publications Librarian**  
Lisa Nickum (303) 273-3695

**Temp. Government Publications Librarian**  
Christine Baker (303) 273-3446  
**Library Technician** (303) 384-2354

### Reference

**Head of Reference**  
Lisa Dunn (303) 273-3687  
**Reference Librarian**  
Heather Whitehead (303) 273-3681  
**Reference Librarian**  
Megan Tomeo (303) 273-3689

### Administration

**Director of the Library**  
Joanne Lerud-Heck (303) 273-3690  
**Program Assistant**  
Cathy Van Tassel (303) 273-3690  
**Administrative Assistant**  
Jennifer Ward (303) 273-3645

# crown jewels

## Lakes' coal deposits of Colorado

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.*

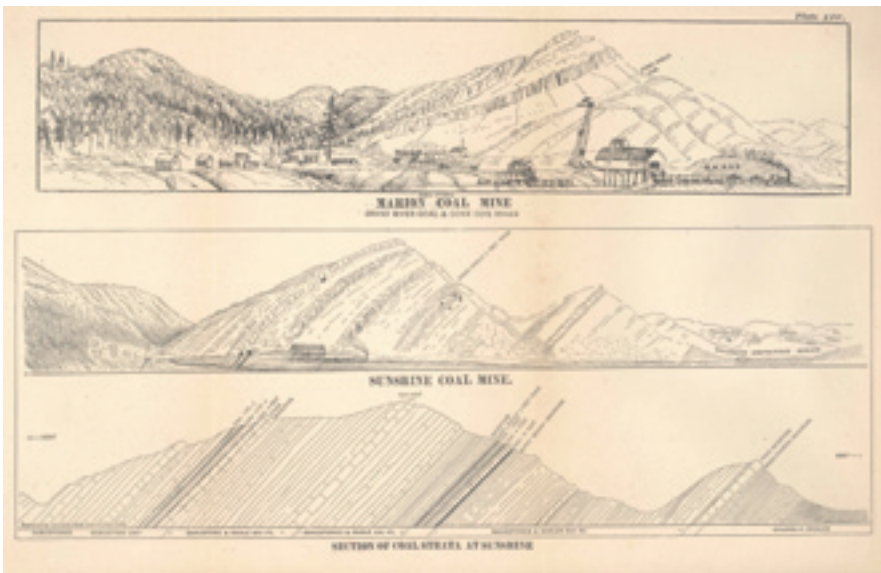
**Lakes, Arthur,  
1844-1917**

**Geology of  
Colorado Coal  
Deposits. (in:  
Colorado State  
School of Mines  
Annual Report of  
Field Work and Analyses. Denver: News Printing Co., 1889)**



Arthur Lakes is known today as the “Father of Colorado Geology.” However, he started out on a much different path, born in 1844 in Martock, Somerset, England he was educated at Queen Elizabeth College, Guernsey, and entered Queens College, Oxford, where he stayed until withdrawing before the fall term in 1865. Lakes subsequently immigrated to the United States and began teaching drawing and writing at Jarvis Hall in Golden, Colorado Territory in 1869. In 1870, a School of Mines and Mathews Hall, a theology school, were added to Jarvis Hall. In 1874, Lakes was ordained as a deacon of the Episcopal Church and served as a summer minister to mining camps in the mountains west of Golden. He also studied the geology of Colorado and began collecting minerals and fossils, especially in the Dakota Hogback near Morrison.

In 1878, his livelihood was in jeopardy when Jarvis and Mathews Halls burned to the ground, leaving him without teaching employment. At this time, he contacted Othniel Charles Marsh, a paleontologist at Yale University. After meeting Marsh, Lakes was hired to conduct field work in Colorado and Wyoming, where he drew a number of sketches and did watercolors of the on-going field work and of the dinosaur specimens being excavated. Fossil collecting in Wyoming sparked a drive by museums to find and display



dinosaur bones as status symbols and audience draws; Lakes was on hand to record this major event in American paleontology. Lakes then went back to teaching in Golden at the Colorado School of Mines, where he became Professor of Geology, remaining there until 1893. After leaving Mines, he became a consulting geologist until his death in 1917.

Arthur Lakes wrote a number of books and wrote prolifically for professional journals on geology and mining. Why pick a work on coal published in an annual report as the best of his work? The answer lies in the artwork used to illustrate the report. Arthur Lakes was not only a superb geologist; he was also an accomplished artist who could sketch in the field. Before cameras became portable enough to go on expeditions, sketching was the best method available to record landscapes and the geological formations in them. Lakes did a number of watercolors and sketches in the field notes he made. Some of his watercolors and a few of his paintings are held here at the Library that bears his name. Yale University's Peabody Museum holds other Lakes' watercolors and his field notes.

The *Geology of Colorado Coal Deposits* is the best report for enjoying Lakes' superb sketches. The report has 25 engraved plates, made by the American Bank Note Company in New York. The first plate is the only color plate and is entitled: "A Panoramic View & Geological Section of Durango Coal Fields"; it is a panoramic fold-out of Durango and the Animas River Valley. The other 24 black and white plates contained in the report show places in Colorado where coal was a significant part of the geology. Most are panoramic landscape sketches or cross-sections of geologic formations.

# GTI gift

## Library's Petroleum Industry Collection Grows

by Lisa Dunn

*In March 2004 the Arthur Lakes Library received the collections of the Gas Technology Institute (GTI) Library on the closure of the GTI office in Denver. The gift was presented by the Independent Petroleum Association of Mountain States (IPAMS) and included research reports, conference proceedings, historical runs of periodicals, and other materials spanning nearly 40 years of activity in the petroleum industry.*

These materials significantly enhance an already strong collection on natural gas resources and the petroleum industry at the Library. The Library has had a long-standing relationships with organizations in the petroleum industry. Because of these relationships and CSM's focus areas, donation of the GTI collections to the Arthur Lakes Library was a good fit.

The Library continues the process of adding materials from the GTI gift to its collections. Our users now have access to these added materials including over 1,800 reports to date, the largest publicly accessible collection of such reports in Colorado. Users of the Library also have access to thousands of other resources on the petroleum industry and trade, including statistics, maps, government publications, journals, company annual reports, and original research done at CSM. These resources extend across time ranging from the early 1900s to the present and cover topics in hydrocarbon exploration and production, petroleum economics, unconventional hydrocarbon resources, energy policy and planning, and materials specific to the Rocky Mountain region of the US.

Users can identify these materials via the Library's catalog Catalyst, which offers searching by subject and for specific items. In addition, many of these materials can be borrowed via Prospector, our unified catalog of 23 regional libraries, or directly through other libraries in the area. Librarians are available to answer questions and assist with information research.

## Gifts of collections

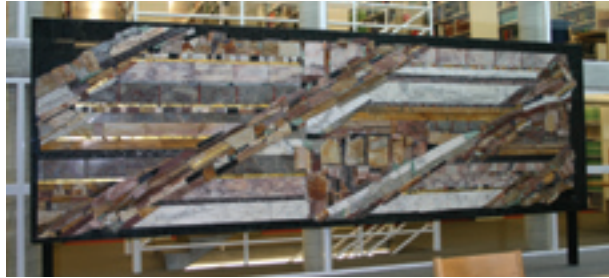
When an individual, corporation or organization is in transition, their working collection is frequently in danger of disappearing. As a repository of current and historical information, the Library accepts donations of working collections and funds to process those collections that match well with CSM's focus areas in science and engineering.

## Broe Company Gift Enhances the Library

By Pamela Blome

*The Arthur Lakes Library was recently given a new work of art. Composed of a large, free standing sculpture and an art glass sculpture, the piece, entitled ENERGY, was created by artist Thomas Hölzer and donated to the Library by the Broe Company, a major real estate developer based in Denver. The pieces were installed in the Library in December 2005 and February 2006.*

The artist, who at the time was a resident of Boulder, was commissioned by the Teachers Insurance and Annuity Association (TIAA) to create a piece for the



newly renovated atrium of the Mile High Center, an IM Pei designed building at 1700 Broadway. Current renovations of the atrium required the artwork find a new home. Patrick Broe, a major art collector, found the Colorado School of Mines' Arthur Lakes Library to be the perfect location for the installation of this monumentally scaled work of art. With the assistance of Hilary DePolo, Visual Arts Consultant, the work of art was removed from the Mile High Center and reinstalled in the Arthur Lakes Library.



The fabrication and original installation of the piece was completed in 1989 by the Franz Mayer workshop of Munich, Germany under close supervision of the artist. In an impressive scale, the artist explores the materials and textures of geology. Rough cut stones contrast with gold leaf and smooth granite. The title of the work refers to the vast wealth of resources available and to the dynamics necessary to create and harvest this wealth. The glass sculpture, created with leaded mouth-blown antique and dichroic glass, also carries out this theme.

# making an impact

## Dempseys' Gifts Provide

By Joanne V. Lerud-Heck



*Stan and Judy Dempsey were high school sweethearts; she went to college at Butler University and Stan spent his freshman year at the Colorado School of Mines, transferring the next year to CU-Boulder where he earned his B.A. in Geology, '60 and his J.D. degree, '64. In 1960, after graduating from college, Judy and Stan were married. Judy became an elementary school teacher and Stan began working for AMAX where he stayed for 27 years. He is now Chairman of the Board and CEO for Royal Gold, a precious metals royalty company.*

Libraries are important to both Stan and Judy Dempsey and for each of them, this interest started early. While Judy's love for libraries was strengthened when she worked at a branch of the Indianapolis Public Library during high school, Stan spent time there after school reading his way around the stacks. He smiles saying, "He got to the section of books on mining history and hasn't left it yet." In 1986, Stan added his own book to those mining history shelves when he published *Mining the Summit: Colorado's Ten Mile District, 1860 - 1960, a history of the Ten Mile District, north of Leadville, Colorado.*

Stan remains very interested in the Colorado School of Mines. He is a member of the Arthur Lakes Library Visiting Committee (see p. 12-13 for more information about the Committee), and he appreciates that Mines



# for the Future

students have a serious interest in their chosen fields and use a systems approach to problem solving. As an employer, he recognizes that Mines has maintained its position as a leader in mining technology and education. Stan and Judy both commend the Library's dedication to the preservation of mining history for future generations. The Dempseys' regard for CSM and mining history is evidenced by several gifts they have given to the School and Library. Beginning in 1997, Stan and Judy made several deferred gifts to the School in support of student scholarships and the Library's Wood Mining History Archive.

However, recognizing that the Library has current needs, not all of them identified, Stan and Judy gave a gift of unrestricted funds in 2003. While the Library has many pressing needs, our foremost need is more space. Thus, the Dempseys' unrestricted gift has been used to support development of a building plan for the Library. Architects and other space planning professionals are working to define the current needs of the students and faculty of CSM as well as anticipate future needs. The completed building plan will present the space need information to the CSM Administration in a clear concise manner so that the building plans for a new Library might be properly drawn up.

## 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](mailto:jlerud@mines.edu)**



# seniors move on

## Student staff Deaton and Lee consistently made a difference

By Lisa Nickum

*The Government Publications section has been very grateful and fortunate to have two excellent student assistants working in the section for the past 4 years. Michelle Deaton of Houston, Texas and Kyra Lee of Berthoud, Colorado started working in the section during their first semester in fall 2002. They both do the basic work required of all student assistants in the section: processing, shelving, filing, but they quickly mastered those tasks and moved on to more advanced duties. Michelle and Kyra have both really embraced the “other duties as assigned” that is on all Government Publications student assistant contracts! Both display considerable attention to detail, are able to work independently, and have a great willingness to learn. Due to this, as well as their initiative, thoughtfulness, and positive attitudes, a great amount of confidence and trust has been placed in them.*

Michelle’s special projects have focused on improving training materials for new student assistants in the section and performing extended database projects. In improving procedures and training tools for incoming students, Michelle has impressed the staff with her creative and common sense suggestions to improve workflow for students. She has also worked on many database projects, the largest of which has been improving access to the Department of Energy’s technical report literature.

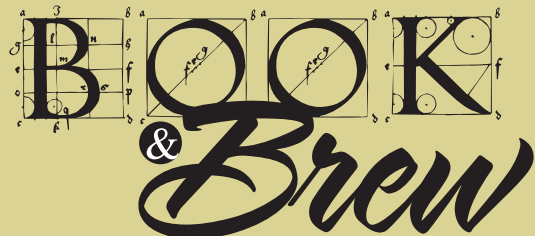


*This coupon entitles you to a*

**FREE  
BEVERAGE**

*of your Choice.*

Valid through May 2006.



Located in the entrance of the Arthur Lakes Library.

Kyra's special projects have focused on developing new procedures for processing Colorado State documents and assisting with a large cataloging project for the same collection. Kyra has imported over 2,000 catalog records and is helping to make the Colorado State government publications collection accessible for the first time. Kyra's involvement in creating new policies and procedures for processing all new Colorado State publications will continue to save processing time well beyond her years at Mines.



In addition to their academic and work lives, Michelle and Kyra have a lot of other demands on their time at Mines. Michelle has been very involved in Mines Little Theater and takes part in intramural sports. Kyra is in the McBride Honors Program and is involved with the Society of Creative Anachronism. Both have held leadership positions in these groups: Michelle with Mines Little Theater and Kyra with Society of Creative Anachronism. They both have very little down time!

While the Government Publications staff is happy to see both of them graduate and move on to bigger and better things, we are very sad to be losing two valuable members of our team.

## CONCERTS in the LIBRARY series

Administrative Assistant in Economics and Business, Kathleen Martin (harp) and Rick Martin (hammered dulcimer) perform in the CONCERTS in the LIBRARY series.



# visiting committee

## External feedback helps the Library attain future goals

By Cathy Van Tassel

*Academic units at the Colorado School of Mines are fortunate to have external reviews completed by informed and interested professionals; these professionals make up what CSM calls Visiting Committees. The Arthur Lakes Library Visiting Committee recently completed their audit visit of the Library. We look forward to their feedback about our current activities and suggestions for future growth.*



Mr. Robert P. Davison III

The Arthur Lakes Library Visiting Committee is an advisory body to the Board of Trustees, the President, the Vice President for Academic Affairs and the Director of the Arthur Lakes Library. The committee is composed of individuals from a variety of personal and professional backgrounds – their uniting quality: strong interest in and support of the Library. These individuals provide the Library with a link to the larger world and help ensure we are providing CSM students, faculty and staff with the resources they need to be leaders in the scientific and technical community.



Mrs. Lyn Wood

Visiting Committees help the School develop and refine goals, review progress, assess its contributions in relation to the needs of the community and the Nation, and consider long-range goals and priorities. The



Mr. C. Lee Jones

Library Visiting Committees may also provide consultation to components of the department in accordance with individual expertise, and they may be asked to assist the President and the Vice President for Academic Affairs in the overall evaluation of the Library and its Director. The Committee may also be of assistance in identifying sources of financial support or possible candidates for a department head when a search is in process.

In sum, the Library Visiting Committee:

- Provides advice to the Board of Trustees, the President, the Vice President for Academic Affairs, and the Director of the Library
- Serves to link the Library and the School with the professional world
- Makes the work of the Library and School more widely known to alumni and those in the private sector
- Provides the School with objective advice for both the short and long-term
- Serves as a channel of communication on all of these matters with the Board of Trustees

As frequently as once per year, the Visiting Committee makes an advisory visit to the Library. These visits generally consist of a one day meeting with the Director of the Library as well as the staff and faculty. Other individuals from the campus community are invited in if the Committee requests reports or information

from another unit. Every three years the Committee conducts an audit visit. During those visits, members of the Committee spend 2 days on campus meeting with the Administration, the Director of the Library, the Library faculty and staff as well as members



Judy Dempsey, Jim Fletcher, Stan Dempsey and J. Mark Erickson

of the Office of Institutional Advancement; then the Committee spends time working together to prepare their preliminary report to the School.

### VISITING COMMITTEE MEMBERS

- Mr. Robert P. Davison, III, Tour Operator
- Mr. Stanley Dempsey, Chairman, CEO & President of Royal Gold
- Dr. J. Mark Erickson, Chapin Professor of Geology, St. Lawrence University
- Mr. Jim Fletcher, Senior Consultant for Parametrix Consulting
- Mr. C. Lee Jones, President, Linda Hall Library
- Dr. Todd Jones, Vice President, Drug Discovery, RW Johnson Pharmaceutical Research Institute
- Dr. Terence McNulty, President of T.P. McNulty & Associates
- Miss Sara Parker, Retired (Former Missouri State Librarian)
- Mr. Fred Schwartzberg, Principal Engineer, Rocky Mountain EMTEC, Inc.
- Mrs. Lyn Wood, Philanthropist of Russell L. and Lyn Wood Mining History Archive

# generous gifts

## Gifts help the Library meet needs

By Cathy Van Tassel

*Would you like to be a part of the future of the Arthur Lakes Library? Consider giving a gift that will help us sustain our current level of service as well as reach ahead to achieve the Arthur Lakes Library of the 21st Century.*

### How we use your generous gift to meet student and faculty needs:

**\$100 - \$500.** Gifts in this range purchase:

- New library books (the average cost of a scientific/technical book is \$150)
- Basic (non-technical) periodical subscriptions (the average periodical costs \$485)
- Office productivity software licenses for Library staff computers

**\$500 - \$1,000.** Gifts at this level are often bundled together to leverage the purchase of books and journals:

- Scientific and technical journals (e.g. *Key Engineering Materials* - \$2,520 and *Geophysics Journal International* - \$2,355)
- Science and Engineering Reference books
- Library staff workstations

**\$1,000 - \$5,000.** The average cost of an engineering periodical is \$1,600 per year. Thus, gifts at this level are used to purchase technical periodicals, such as:

- *Applied Physics Letters* - \$3,375
- *Separation Science and Technology* - \$3,526
- Campus wide electronic access to the journal *Science* - \$4,860

**\$5,000 - \$10,000.** Gifts at this level allow us to:

- Leverage student Technology Fee Funds. When the Library makes a request for a Tech Fee Award, we make a good faith match of 10% or we purchase required furnishings. The campus computer lab located in the Library is a good example; Tech Fee Funds purchased the equipment, while the Library purchased the computer tables and seating for the lab.
- Purchase more expensive journals (e.g., *Journal of Materials Science* package of titles - \$9,719)
- Bind mining journals held in the Wood Mining History Archive

**\$10,000 - \$25,000.** With gifts at this level we have the capacity to purchase or leverage the purchase of:

- *Journal of Geophysical Research A-E* online access - \$12,779
- Web of Science database - \$72,551
- Institute of Electrical and Electronics Engineers (IEEE) Package of online & print journal titles - \$37,995
- *Science Direct* package of 1,800 electronic journals - \$185,548
- Temporary staff assistance for special projects - \$35,000 to \$45,000

continued on following page

# donations

# 2005&06

*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.*

cont. from pg. 14

## **Making your gift work for you**

A gift annuity provides funds for both the donors and the Library at some future date. Gifts of appreciated securities are another way to make a contribution to the Library. For more information about types of gifts that might benefit both you and the Library, please contact Chris Wenger, Director of Planned Giving at (303) 273-3140 or [cwenger@mines.edu](mailto:cwenger@mines.edu). Often gifts, such as annuities and endowments, are given to the Library and earmarked for a particular purpose, usually something the donor is interested in and excited about supporting – such as the Mining History Archive or a particular subject area of the collection.

Be a part of helping us educate future generations of scientists and engineers!

(Oct. 2005 - March 2006)

Dr. and Mrs. Sigma R. Alpha

Dr. Odin D. Christensen

Mr. Kelly P. Coleman

Dr. Stephen R. Daniel

Mr. and Mrs. Hugh W. Evans

Mr. Jim Fletcher

Mr. and Mrs. Gerald P. Hannes

Mr. Gary P. Hemphill

Mr. and Mrs. Richard S. Hillier

Mrs. Susan Hoffman

Mrs. Virginia T. Howbert

Mr. and Mrs. Mark S. Hughes

Mr. Ed T. Hunter

International Organization for  
Transportation by Rope (O.I.T.A.F.)

Mr. C. Eugene Kooper

Mr. and Mrs. Evangelos Krokidis

Mr. Glenn L. Krum

Mr. and Mrs. David G. Lloyd

Mr. David B. MacKenzie

Mr. Rodney W. McNeill

Dr. and Mrs. Terence P. McNulty

Mr. Robert W. Meader

Mrs. Gertrude E. Meyer

Mr. Richard L. Nielsen

Mr. and Mrs. Gerhard J. Petri

Mrs. Ivy Powell

Mr. Walter L. Powell

Mr. R. Randy Ray

Mr. John R. Schuyler

Mr. Stephen D. Schwochow

Ms. Louise R. Seeton

in honor of Mr. Frank Seeton, '47

Mr. Ben H. Slothower

Mr. and Mrs. Charles E. Stark

Mr. Thomas A. Watkins

Mr. and Mrs. James M. Wightman

Mrs. Lyn C. Wood

Dr. Alan D. Zunkel

# 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](http://www.medullastudio.com)>

Photography and editorial assistance by Patricia Andersen, Pamela Blome, Cathy Van Tassel, Jennifer Ward and Heather Whitehead.



Pictured from left to right: Beth Zecca, Information Delivery Services – Lending and Sherry Muniz, Information Delivery Services – Borrowing

MORGAN



Arthur  
Lakes  
Library

COLORADO SCHOOL OF MINES  
1400 Illinois Street  
Golden, Colorado 80401