Taking That First Green Step

by Renée Azerbegi, CEM, The RMH Group, Inc., Member AIA Committee on the Environment, Denver Chapter

According to a recent Gallup poll, more than 78% of Americans call themselves environmentalists. Despite Americans' personal commitment, only a fraction of today's designs can be considered sustainable. Many in the A/E community think they do not know how to set and meet sustainability goals. To take that first green step, work backwards. Look at designs you've already completed and you'll realize a handful, if not more, incorporate green features. This is the beginning of your green portfolio.

Next, find the other closet environmentalists at your firm and form a green team. strive to bring together a diverse group, as sustainable design draws on many perspectives. At The RMH Group, a mechanical, electrical/lighting, and industrial process engineering firm in Lakewood, our core green team is comprised of five members with varied backgrounds.

Once your green team is organized, the next step is to begin "greening" your firm. There are two paths to greening — external and internal. External greening not only means designing green buildings, it also involves spreading the word about the benefits of sustainable design through marketing, networking, and client education. Internal greening relates to how you practice and how you maintain and operate your studio. Internal greening might entail revising purchasing policies, updating specifications, developing staff through training, encouraging alternative transportation, recycling, and subscribing to green resources, such as Environmental Building News and Environmental Design and Construction.

Although you may have incorporated sustainable features into previous designs, a truly sustainable project requires increased preparation, analysis, coordination, and integration. Green design works best when all team members are involved from the start, with the sustainable design consultant coordinating all disciplines throughout the process. Bringing the contractor and the commissioning agent on board early — along with their wealth of practical experience — helps to bridge the design and construction processes. Early in schematic design, a wide variety of green concepts should be considered, perhaps in the context of a sustainable design charrette. Also during schematic design energy modeling and life cycle cost studies for three or more alternatives should be developed as these are important components in the overall decision-making process. During building construction, reducing waste, recycling materials, and ensuring good air quality for the construction crew and future occupants are vital. Even after construction, the sustainable design process continues with post-commissioning and monitoring of air quality, water usage, energy usage, waste reduction, and recycling.

A wide range of services are available to enhance and ensure green design. One service receiving a great deal of attention is the U.S. Green Building Council's Leadership in Energy & Environmental Design (LEED) Green Building Rating System. RMH has experience designing sustainable systems that make sense for Colorado, including solar, wind, ice thermal storage, ground source heating, and much more. For example, designing sustainable systems that make sense for Colorado, including solar, wind, ice thermal storage, ground source heating, and much more.

As people become more aware of the benefits of sustainable design, the A/E industry will gradually adopt practices that today's standards seem extraordinary. In five to ten years, green design practices will likely become the norm. Being at the forefront of the sustainable revolution is an exciting challenge for all of us in the design community. We can all learn from each other and increase awareness among our clients.

The RMH Group's green team offers such services as mechanical and electrical design, energy modeling, energy audits, daylighting modeling, and green building ratings. RMH has experience designing sustainable systems that make sense for Colorado, including solar, wind, ice thermal storage, ground source heating, and much more. Contact Renée Azerbegi, CEM, Sustainable Design Engineer, 303-239-0909, razerbegi@rmhgroup.com, or visit www.rmhgroup.com for more information.
Mission Statement and Tasks

The CAB has been formed to serve the members of AIA Colorado, offering an informative, comprehensive and timely newsletter as well as a progressive web site. Members of this board will function as a tool for architectural professionals, facilitating efforts on raising the bar of design and construction document preparation. AIA Colorado Staff will be involved in projects in over 20 states, including healthcare and senior living projects with a continued commitment to quality design and is substantially increasing the depth of the firm's experience and knowledge of design in all phases of service. Jack will focus his passion for design on leadership, mentoring and the daily challenges of creativity, innovation and problem solving. Mousseau brings over 17 years of experience to M+O+A in commercial, aviation, public and institutional design for national and international clients. He has participated in numerous design competitions including the winning submissions for the Incheon International Airport in South Korea and the National Cowboy Hall of Fame in Oklahoma City, Oklahoma. He has lectured on "Architecture in the International Marketplace" and "Aviation Planning and Design." Prior to joining M+O+A Architectural Partnership, Mousseau was an associate principal with Fentress Bradburn Architects. M+O+A Architectural Partnership, celebrating 21 years of comprehensive architectural design and planning services, offers expertise in corporate, academic, recreation, public, industry, healthcare and senior living facilities.

Roth Sheppard Architects recently added the following members to its staff:

Chrislo Plaza: A project manager with over seven years experience, Chrislo came to us from Olson Lovie Corporation. He has a significant amount of experience working with national clients on Health Clubs and Recreational facilities. He is presently managing several projects, including the Tokyo Joe's Restaurants and the Volleyball residence addition and remodel. Chrislo is an exercise and fitness buff bringing a welcomed level of enthusiasm and experience to the office.

Kelly Smith: Kelly is an architectural intern and recent graduate of the Architectural program at Oklahoma State. He combines his technical hand and sketching skills with a mature sense of design. Kelly is the designer for the Warner residence addition located in HipHop and will continue on with this project through construction.

Ryan Wallace: Ryan is an architectural intern working towards his master's degree at the University of Colorado College of Architecture. He is providing design and construction document support on the Tokyo Joe's Restaurants and the Vogels residence. Ryan brings to the firm the creative energy of the school.
Roth Sheppard Architects

Roth Sheppard Architects recently completed municipal facilities for Broomfield, Arapahoe County and the City of Brighton. With a combined construction cost of over $45,000,000, these projects represent the firm's commitment to integrating craft and innovation in both large and small-scale projects. The firm's neo-modernist design tendencies are visually apparent in these facilities as well as our recent retail and restaurant projects.

The $7,000,000.00 Brighton Police and Courts Facility was awarded the Westword 'Best One-Stop Cop Shop' in the recent issue of Westword's 'Best of West.' The 40,000 s.f. project contains a two-story public art gallery/lobby that connects the lower level police functions with the upper level court room. A recent national competition resulted in the selection of an artist to install a 60' long low relief mural as the focal element of the lobby. Kevin Stephenson was the project architect and design lead for the project, working with the owners and contractor from concept design through construction completion. Kevin is now the project architect on the Cohen Ranch Facility, the Warner residence and the Adcom 911 Call Center Facility.

The $21,000,000.00 Arapahoe County Sherriffs and Coroners Complex was completed last month after an intensive 2 and 1/2 year design and construction process. The clean, modernist lines of this 3 story facility recall the early international style aesthetic of factories and industrial buildings while alluding to the high plains horizontal topography of the surrounding context. This project was managed by Karen Caramela-Jenson. Karen came to this firm from Gensler and Associates and has a significant amount of experience managing complex projects with integrated owner/contractor consultant teams. Karen is now designing and managing the new Louisville Police and Courts facility while finding time to remodel her recent house purchase.

Other projects in various phases of design and construction include:
- Room and Board, South Coast Plaza, Santa Ana California
- Warner Residence Remodel and Addition
- Vogels Residence Remodel and Addition
- Cherry Hills Municipal Center, Cherry Hills Colorado
- James Peck Lodge, Winter Park
- Cohen Ranch Building, Frisco
- Tokyo Joe's, Chester Plaza
- Cherry Hills Police and Courts Facility, Cherry Hills
- Louisville Police and Courts Facility, Louisville
- Osmond Police Facility, Osmond California
- Littleton Police Department, Littleton

Ash & White Construction Company Attends the Official Unveiling Celebration of the Historic Restoration Project of the Trinity United Methodist Church

The historic restoration of the Trinity United Methodist Church was officially unveiled on Sunday, August 4, 2002, as members and invited guests gathered in front of the church following a 143-year celebratory birthday service. The project artisans of Ash & White Construction Co., The Florin Group, A.P. Eberlein, and Pine's Stone Co. were on hand as the commencement of the first phase of a 3-year project was unveiled.

Tim White, President of Ash & White Construction Company states, "It is a privilege and an honor to be part of the restoration of one of the more significant buildings in Denver and to have the opportunity to work with such great companies." The Florin Group's design and engineering expertise on historic restoration brought the building back to life.

(Continued on page 21)

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Professional Project Management Course

by Janis Newlan

The College of Architecture and Planning at the University of Colorado, Denver, is again offering a continuing education opportunity in project management. Scheduled for five evenings in November 2002, the Professional Project Management Course is designed primarily for those individuals interested in obtaining the Project Management Professional (PMP) certification, a process separate from the course (www.pmi.org). Topics specific to the certification process will be included in class: Scope Management, Time Management, Quality Management, Communications Management, Contract Management, Cost Management, Risk Management, Human Resource Management and Integration. Individuals not planning to take the exam have also found the content useful.

This course is fast paced and intended for those with some project management experience, generally the intermediate to advanced project manager. Although not an entry-level class, individuals who are just beginning their project management careers have found it challenging and career enhancing. Rather than focusing on a particular industry or specific profession, e.g., architecture, engineering, etc., the course emphasis is on project management processes and skills using the Project Management Institute Body of Knowledge. A sample certification exam and topics relating to the certification process are included.

It is also an opportunity to maximize your project effectiveness through improved leadership and management skills combined with knowledge of the planning, control tools, and issues involved in project management.

Dates are Tues-11/5, Thurs-11/7, Tues-11/12, Thurs-11/14, Tues-11/19; 6:00-9:00 PM. Classes will be held at CU Interlocken located at Level 3 offices in Broomfield, CO. (Directions with registration.) The fee of $915 includes all materials and a sample certification examination. A course description and registration form can be obtained by contacting Professional Development Programs at the College of Architecture and Planning, UCD. Call 303-556-3954, or send an e-mail request to janisnewlan@cudenver.edu

EDUCATION NEWS 02

PROFESSIONAL PROJECT MANAGEMENT

Maximize your project effectiveness through improved leadership and management skills combined with knowledge of the planning, control tools, and issues involved in project management.

Who Should Attend

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The Instructor

Dale Stewart, PMP, has over 22 years of experience in military construction, nuclear power plant construction, telecommunications and department of energy capital construction projects. Mr. Stewart has held the positions of planning and scheduling supervisor, director of project management and vice president for a technical consulting firm. He has graduate degrees in business and information resource management, is a certified PMP and registered education provider with the Project Management Institute.

Module 1: Scope Management

• Scope statement
• Work breakdown structure
• Project life cycle

Module 2: Time Management

• Project control plan
• Critical path scheduling
• Planning and scheduling

Module 3: Quality Management

• Quality and project management
• Cost of quality
• Sampling techniques

Module 4: Communications Management

• Communication and the project manager

(Continued on page 21)

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Dale Stewart, PMP, has over 22 years of experience in military construction, nuclear power plant construction, telecommunications and department of energy capital construction projects. Mr. Stewart has held the positions of planning and scheduling supervisor, director of project management and vice president for a technical consulting firm. He has graduate degrees in business and information resource management, is a certified PMP and registered education provider with the Project Management Institute.
Did you know...

Did you know that the built environment has a profound impact on our natural environment—economy, health, and productivity?

In the United States, buildings account for:

• 30% of total energy use/65% of electricity consumption
• 30% of greenhouse gas emissions
• 30% of raw materials use
• 30% of waste output/136 million tons annually
• 12% of potable water consumption

Building science, technology, and operations are available to designers, builders, and owners who want to build green and maximize both economic and environmental performance.

Environmental benefits are:

• Enhance and protect ecosystems and biodiversity
• Improve air and water quality
• Reduce solid waste
• Conserve natural resources

Economic benefits are:

• Reduce operating costs
• Enhance asset value and profits
• Improve employee productivity and satisfaction

• Optimize life-cycle economic performance

Health and community benefits are:

• Improve air, thermal, and acoustic environments
• Enhance occupant comfort and health
• Minimize strain on local infrastructure
• Contribute to overall quality of life

LEED™, the “Leadership in Energy & Environmental Design” Green Building Rating System, is the nationally accepted standard for green buildings developed by the U.S. Green Building Council (USGBC) membership.

LEED is a voluntary, consensus-based national standard for developing high-performance, sustainable buildings. Members of the U.S. Green Building Council, representing all segments of the building industry, developed LEED and continue to contribute to its evolution. LEED provides a complete framework for assessing building performance and meeting sustainability goals. Based on well-founded scientific standards, LEED emphasizes strategies for sustainable site development, water savings, energy efficiency, materials selection, and indoor environmental quality.

LEED was created to:

• Define “green building” by establishing a common standard of measurement
• Promote integrated, whole-building design practices
• Recognize environmental leadership in the building industry
• Stimulate green competitions
• Raise consumer awareness of green building benefits
• Contribute to overall quality of life

LEED standards are currently available for:

• New construction and renovation projects (LEED 2.0/2.1)
• Existing building operations (LEED-EB, Existing Building Pilot Version)
• Commercial interiors projects (LEED-CL, Commercial Interior Pilot Version)

LEED standards currently in the process of being developed are:

• Residential (LEED-RI)

The U.S. Green Building Council—Who and what it is.

The U.S. Green Building Council (USGBC) is a leading national consensus for producing a new generation of buildings that deliver high performance inside and out with respect to the environment. The U.S. Green Building Council is the nation’s foremost coalition of leaders from across the building industry working to promote buildings that are environmentally responsible, profitable, and healthy places to live and work.

Council members are leading a national consensus for producing a new generation of buildings that deliver high performance inside and out. Our members work together to develop design guidelines, policy positions, educational tools, and industry standards—including the LEED™ (Leadership in Energy and Environmental Design) Rating System—that support the adoption of sustainable design and building practices. All council programs are committee-based, member-driven, and consensus-focused. As the building coalition representing the entire industry on environmental building matters, USGBC’s unique perspective, inclusive approach within the industry and collective power provides its members with enormous opportunity to effect change in the way...
SUSTAINABILITY – Just Another Buzz Word?

by Peggy Kinsey, AIA, CEFPI Chair, AIA Denver/COTE

Not long ago an architect colleague of mine commented that as far as he was concerned ‘sustainability’ was another one of those popular buzz words that is ‘here today and gone tomorrow’ as he was concerned ‘sustainability’ was seventies and wasn’t going down that road again. That kind of limited vision is unconscionable and I would like to think is only a minority opinion. Unfortunately it is not.

A well-known business leader, Paul Hawken (co-founder of Smith & Hawken) is not. He commented that as far as he was concerned ‘sustainability’ was only a minority opinion. Unfortunately it seems to have missed the greater issue at hand – consumption. A 10,000 square foot single-family residence wrapped around a ‘larger than life’ swimming pool with associated waterfalls - IN A DROUGHT! is not a responsible response to a crisis? It is our responsibility as professionals to lead. It is the harder road, but we can do it. The costs and time implications for each of us is a small price to pay. The payback is our grandchildren’s future.

So what does all this have to do with being an architect? Very simply we are in the position to make a huge difference. Look at the facts:

- There are more than 80 million homes, offices, and factories in America
- These buildings consume nearly 33 percent of our energy and 67 percent of all electricity.
- Building systems produce 35 percent of our carbon dioxide emissions.
- By 2010, the number of buildings in the United States is expected to rise to 118 million – a 48 percent increase in just 8 years.
- Globally, buildings consume 40 percent of the world’s energy.

The environmental benefits of sustainable architecture:
- Decreased reliance on foreign oil and fossil fuels
- Improved air and water quality due to reduced emissions and pollution
- Lesser impact on land fills and forests due to use of recycled/recyclable materials
- Positive impact on global warming due to investment in alternative energy sources
- Ten years ago the AIA Denver/Committee on the Environment published the first edition of the Sustainable Design Resource Guide in an effort to provide our fellow architects with a resource they could use to facilitate the implementation of sustainable practices in their work. The committee is now working to update the guide. There are a lot more materials and resources available now, but we have not seen the profession as a whole embrace the basic principles of sustainability. Primarily, what we see is ‘service’.

Prime examples exist in the ‘Bull Green’ houses currently on display at the 2002 Parade of Homes. It is good to see that they are using more energy efficient heating and cooling plants and appliances, as well as xeriscaping, but they seem to have missed the greater issue at hand – consumption. A 10,000 square foot single-family residence wrapped around a ‘larger than life’ swimming pool with associated waterfalls – IN A DROUGHT! Is that a responsible response to a crisis? It is our responsibility as professionals to lead. It is the harder road, but we can do it. The costs and time implications for each of us is a small price to pay. The payback is our grandchildren’s future.
On Sustainable Architecture in AR7's work

by Ramiko Ruiz, AIA

At AR7, we generally believe that a building should advance the client's needs, but also be complimentary to the environment, and engage and support human culture. In other words, we aim for a complete work of architecture: buildings in which environmental responsibility is fully integrated with formal ambition and responsiveness to an enlightened vision of community life.

Sustainability as based on a set of values will be more effectively advanced as we as a civilization adjust our underlying premises: our economic, scientific, and philosophical values. Until such adjustments coalesce further to help elevate environmental awareness globally, at AR7, we pursue opportunities to create architecture supportive of environment as we know it: environment where sustaining nature and sustaining the human spirit is of equal importance.

Sustainability of nature we pursue through energy efficiency, durability, flexibility, life cycle costing, as measurable aspects of a "green building". Sustainability of the human spirit we pursue through the connection between a building and the community. By acknowledging the "observer" client in addition to acknowledging the owner and user client, we acknowledge the link with the community. Using design we articulate the connection with the community as placeless, access and urban context, and health, and happiness; all descriptive qualities in the effort to sustain ourselves and our spirit as a positive part of natural environment.

Thus, the connection with community is one of the priorities we pursue as the means to sustain human culture and the human spirit. We further do so not only for the purposes of sustainability, but for the purposes of joie de vivre, or "We enjoyment". This way we feel we are grounding architecture in that which ultimately comes from: the culture and society, and their grounding in nature, and ultimately sustainance of that relationship. AIA

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The Historic Preservation Alliance of Colorado Springs

by AIA Colorado Staff

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Colorado 2002 Renewable Energy in Buildings Awards

The Colorado Renewable Energy Society (CRES) honored the winners of its Colorado 2002 Renewable Energy in Buildings Awards in a Colorado Springs ceremony. The ceremony was part of the CRES 2002 Conference, which attracted more than 400 people to Colorado College to hear about and discuss renewable energy in the state.

Now in its fourth year, the awards celebrate the most creative use of renewable energy in design and construction. There are winners in residential, commercial, and institutional categories. Said CRES President Megan Edmunds, "This year represents a real advance for the award because it highlights the work of some of the best architecture and energy firms in the state. These buildings also show how clever use of sunlight and energy efficient construction create attractive and more comfortable interior spaces."

All of the award winners have created buildings that consume significantly less energy than similar ones built to conventional standards. This is accomplished through creative architecture combined with the use of sophisticated equipment and controls. This design is often sensitive to the locale and results in greatly reduced impact on the environment due to reduced energy consumption over the lifetime of the building.

One winning entry, for example, from the Colorado School of Mines (CSM), estimates energy savings at more than $20,000 per year compared with a similar building constructed to the minimum energy standards of ASHRAE 90.1 (1989) for commercial and institutional buildings.

The building is a new classroom building called "The Center for Technology and Learning Media" located on the CSM campus in Golden. The building contains 39,000 square feet of floor area and cost about $8 million.

The architects, Anderson Mason Dale (AMD) of Denver, used natural local materials in construction and combined natural lighting for interior spaces with controls that dim the electrical lights when sunlight is present. Energy consumption for lighting in the CSM building is 83% less than that of a typical classroom building in which lighting is controlled by timers.

The Colorado 2002 Renewable Energy in Buildings Awards winners for institutional buildings are:

Colorado School of Mines, the building owner. CRES also recognized the entire design and construction team of: Anderson Mason Dale, the design architects, of Denver; Architectural Energy Corporation, consulting energy engineers, of Boulder; Design Balance, sustainability consultants, of Missoula, Montana, and Gordon Gunnerson and Associates, consulting mechanical engineers, of Denver. For more information about the project, see: CRES-energy.org/reea_CSM.html.

Poudre Valley School District Facility Service Building in Fort Collins

CRES presented the award to RMH Group in Lakewood for its lead role in the daylighting design and mechanical engineering consulting. CRES also presented certificates to the Poudre Valley School District, the building owner, in Fort Collins; Melin & Associates Architects PC in Lakspur; and BMC Engineers, Inc. in Golden. For more information about this project, see: CRES-energy.org/reea_RMH.html.

Shumei International Institute, Crestone

CRES presented the award to the building owner, Shumei International Institute in Crestone.

Poudre School District Facility Service Building in Fort Collins

CRES presented the award to the RMH Group in Lakewood for its role in the daylighting design and mechanical engineering consulting. CRES also presented certificates to the Poudre Valley School District, the building owner, in Fort Collins; Melin & Associates Architects PC in Lakspur; and BMC Engineers, Inc. in Golden. For more information about this project, see: CRES-energy.org/reea_Poudre.html.

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Denver Architect Elected to Serve as Co-Chair on Denver Union Station Advisory Committee

The Union Station Master Plan will serve as the blueprint for redeveloping and preserving Denver's historic Union Station and 18 acres of surrounding land. This important project will literally transform Union Station into a transportation and retail hub.

To ensure a successful final Master Plan for Union Station, a Union Station Advisory Committee (USAC) was formed in July to serve as a conduit for public input. Its members represent a wide range of specific stakeholders who have a distinct interest in the outcome of the Union Station Master Plan. The committee, comprised of 76 members, will evaluate the Master Plan’s urban design, transportation, neighborhoods, architecture and preservation components.

Brian Klipp, AIA and alternate Helen Fisher of the Gates Foundation, were named as USAC members on behalf of the Denver Civic Ventures Board for the Downtown Denver Partnership, Inc.

USAC Co-Chair Election

On Thursday, August 8, 2002 the 76-member USAC Committee held a formal election to name three Co-Chairs to serve as representatives on its behalf over the next twelve months. Klipp was elected, along with Jim Graebner and Shannon Gifford, to serve as Co-Chairs who will be charged with the following responsibilities:

• Serve as spokesperson for the USAC
• Act as a liaison between the USAC and the Project Management Team (RTD, CCD, CDOT & DRCOG), and the Union Station Alliance (project developer Jones Lang LaSalle, planners, architects, etc.)
• Speak at public and neighborhood forums
• Serve as facilitators to build consensus among different constituencies within the advisory committee and ensure the outcomes are reflected within the final master plan document.

Klipp has been an active member of the AIA since joining in 1988. Recently, he served as Chair of the Public Relations/Publicity Committee for AIA Colorado as we prepared for the 2001 National Convention, in addition, past positions include Co-Chair of the 1999 AIA Colorado Design Conference and President of AIA Denver in 1993.

Klipp Colussy Jenks DuBois Architects, P.C. is a full-service, award-winning firm specializing in context-responsive, programmatically complex projects for K-12 and higher education, commercial mixed-use and public clients. Current projects include the Wildlife Experience Museum, a 115,000 S.F. facility in Douglas County, a 30-acre campus for Aspen Country Day School in Aspen, Colorado; and the Discovery Learning Center, a graduate research facility at the University of Colorado at Boulder's College of Engineering and Applied Science. KCJD Architects provides complete professional services in architecture, planning, and interior design. Brian Klipp founded the firm in 1979 and in the 23 years since then, has guided its growth to become one of the top ten architecture firms in Denver.
One ski lift up the hill last Superbowl Sunday I asked the man bundled up next to me where he was from and what he did. He said he was a builder of new custom homes in Denver. As a practicing sole proprietor architect my ears perked up and I asked him pointedly, in Denver? His reply was a most assured yes. Where, I asked, was he doing his work, slopes in hilly or new in Lowry or Stapleton and he said, oh no, the southern suburbs. My eyes glazed over completely amazed that he would claim, not just once but twice, that he was building in the city.

He also said straight out right that the residential additions and renovation work I was doing must be somewhat restrictive and boring, not very creative. I paused and thought to myself, perhaps it’s not all crazy and fun, and, sure, I would like to do some new from-scratch designs that respond well to a beautiful mountain site, but there is something very satisfying about making an old house function once again for the lifestyle of the current owners.

The housing stock in Denver built from 100-70 years ago are the core neighborhoods of the city. The fabric of these neighborhoods offer wonderful tell 100-year old maples and oaks, corner ice cream shops, hardware stores and coffee shops, nearby expansive parks with playgrounds, picnicking areas, trails for running or walking, tennis courts & soccer fields, plus nearby Botanic Gardens or world-class museums. The basic Denver Squares on my block offer quality materials and craftsmanship that, at least on the outside, have remained and create the cohesive vernacular and historic vocabulary that you just can’t get everywhere. The variations of bungalow, four-squares, and Victorians, found throughout the neighborhoods help to create the diversity yet cohesive-ness in our many historically designated or non-designated older neighborhoods throughout the city.

One of the hot buttons in the environmentally sustainable consciousness is non-stop growth, the overwhelming absorption of ranches and open space into suburban sprawl. As a society, we are still consumers, and new homes offer attractive features, maybe not more yard but at least more bathrooms for the money you’d spend in the inner city. And bigger is better, right?

The housing stock in central Denver is a bit limiting. Congress Park, Park Hill, and Washington Park neighborhoods are filled with one-story bungalows with two bedrooms and maybe 1400 square feet. Parts of Capitol Hill may offer larger homes (if you can afford to convert them). The typical Denver Square is only 1750 square feet. People want to be able to have rooms for their families, their overnight guests, entertaining spaces and both public and private spaces within their homes. These older smaller homes with their wonderful character, craftsmanship or Victorian detailing, their close proximity to downtown and to restaurants and entertainment and their great established neighborhoods, are prime candidates for adaptations and renovations.

When working with the Landmark Commission on a project where we are planning to add a second floor to an existing garage for use as an artist’s painting studio, a remark by the staff architect caught my ear. The effect was that she would much rather see these properties altered and renovated (within the design guidelines) so that people can actually live in them rather than move out to the suburbs. Suburban flight is still very real, as you can still get more space for your money compared to that in the city. (Not necessarily more house.) In other words, we’ve got to make the old houses in the inner city usable, to rework the house so it is more flexible, so it has enough bedrooms or a separate family room, a larger kitchen, master bathroom, a central homework or office or computer area, whatever it takes to make it work for the owner. This is a major key to curbing suburban sprawl. It is also quite fascinating and creative.

So next time you hear someone talking about moving to a larger house out in the suburbs because of the size or work-ability of their house, suggest to them they really take stock of their amenities, and the environmentally sustainable effect they would have if they renovate or put an addition on instead. Even in this market, they will get their investment out of it, and they will gain the benefits of staying in their established neighborhood, as well as doing their part to curb suburban sprawl and all of its wonderful effects for our community as a whole.

Eileen is a principal with Moore Koenigsberg Architecture, where along with her partner and husband, Jon, she works out of their home providing creative yet appropriate environmentally sustainable architectural solutions for both small commercial and residential clients.

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Sustainability Colorado Style

by Morey Bean, AIA

Every once in a great while a breath of fresh air sweeps over the Colorado community landscape, giving us hope that perhaps we're headed in the right direction, perhaps we will learn to do the right thing after all. Such is the case with the development of the Catamount Institute, a wonderful harbinger of a sustainable Colorado future. Centered on a 1360 acre preserve on the north slope of the Pikes Peak Massif west of Woodland Park that is protected by conservation easements, the Institute has sown its own seeds toward becoming a world renowned facility. Endowed by a significant family trust, the Institute is led by Environmental Education professor Julie Francis and her husband Dr. Howard Drossman, the head of Colorado College’s Environmental Sciences Department. Catamount partners include NASA, Rocky Mountain Institute, National Science Foundation, Colorado College and the Center for Creative Leadership.

The Institute works within a holistic philosophical framework revolving around Science, Service, Spirt. Systems, Stewardship and of course Sustainability. Its education programs includes helping underserved and minority youth to executive leadership development programs tailored by the Center for Creative Leadership.

In a most significant commitment to service to Colorado, the Institute is the sponsor of the Colorado Sustainable Business Network, a group "Fostering the economic, environmental, and social health of Colorado" led by past Rocky Mountain Institute (RMI) staffer David Shurna, an entrepreneurial oriented non-profit that is assisting businesses in their attempts to become more sustainable in their pursuit of building profit, helping people and protecting the planet (The three P's, the three bottom lines).

I encourage your support of the Institute through your membership in the Colorado Sustainability Business Network. David can be reached at 719-471-0510. Their website is www.catamountinstitute.org.

StudioK12 executive summary

Architecture is a physical manifestation of society’s values, beliefs, history, and vision. It engages us on a daily basis and gives us clues to the past, and perspective on the future. The story of all cultures is recorded around the world in architecture. The story of all cultures is recorded around the world in buildings. StudioK12 will explore architecture and include:

Virtual Architectural Field Trips: Virtual Architectural Field Trips ranging from an introduction to architecture, the exploration of architecturally significant cities, the study of specific building types, to architects of particular significance will be developed.

Architectural Correspondents: The Architectural Correspondents Program will utilize an actual “Correspondent” that visits classrooms to build a personal connection with students prior to embarking on an Architectural Expedition to sites around the United States and the World. The Correspondents journey will not only investigate significant buildings but also the social, economic, political, historical and cultural influences on the design of architecture. Explorations will be documented and reviewed daily by students within the classroom via the internet.

The Teachers Briefcase: A comprehensive resource that includes lesson plans, testing materials, and additional classroom activities to support the Virtual Field Trips Program and the Architectural Correspondents Program will be developed. These resources will meet national education standards, containing lessons for grades K through 12 on Math, Science, History, Social Studies, Writing and Visual Arts.

Teacher and Mentor Training: Connect will provide training and support to teachers and mentors around the country to assist in the implementation of these programs. Mentors will act as contacts for students in the classroom throughout the course of our programs via email.

Utilizing architecture as a tool in education opens the door to limitless possibilities for interdisciplinary integration. StudioK12 will provide students with a viable link between lessons learned in classrooms and their daily lives.
CU Students Build An Energy-Efficient Solar Powered Home

The University of Colorado has assembled a team of engineering and architecture students from the Boulder and Denver campuses to collaborate on a student competition project. This project, called the Solar Decathlon, is a national competition among fourteen university teams to design, build, and operate a small home office powered entirely by solar energy. Teams will compete in ten events during a three-week program of activities on the National Mall in Washington, D.C. in Fall 2002. The Solar Decathlon is an event sponsored by the Department of Energy, the National Renewable Energy Laboratory, American Institute of Architects, and BP Solar.

The home design was guided by a concept they call BASE+. The concept consists of an energy efficient home that can be readily customized to address a wide range of site climates, building budgets, and homeowner needs. The following objectives were kept in mind when designing the house:

• Educate students, the building industry, policy makers, and the public about the benefits of energy-efficient and renewable energy technologies
• Promote commercially available technologies and practices for widespread applications that are adaptable in cost, size, climate, and architectural program
• Develop an elegant and integrated architectural design, guided by the following principles:
  1) Minimize energy use
  2) Decrease waste
  3) Promote education
  4) Create an appealing design that can be easily reconstructed
  5) Execute quick, on-site construction

One of team’s goals was to build an annual “zero-energy” home. To minimize thermal leaks, structurally insulated panels (SIPs) were used in the wall and roof construction. Southwall high performance glazing was selected for all glazing areas. To supplement passive heating and cooling strategies, a high efficiency heat pump-air conditioner was chosen. Since the CU home will be built with tight construction an Energy Recovery Ventilator or ERV will be used. An ERV maintains the indoor air quality and reduces the amount of energy that is required to heat or cool the fresh air by exchanging the heat and humidity of the outgoing conditioned air with the incoming air. Sun Utility Network evacuated tube panels will be used to meet the hot water needs of the house. The roof will also be covered with 7.2 kW of Astropower solar panels. All the chosen appliances and office equipment are energy efficient.

Another team goal was to embrace environmentally friendly building products. Materials were chosen based on the following criteria: low embodied energy, sustainably harvested, environmentally friendly manufacturing process, recycled, recyclable, value added, non-toxic, low VOC (volatile organic compounds), and made in the USA. Typically these materials were either less expensive or comparable in price to conventional building materials while generally providing greater efficiency. Check the team website to see what environmentally friendly products will be showcased in the CU competition home.

Construction of the CU Solar Decathlon home took place in the Home Depot parking lot in Louisville, Colorado this summer. Students and professionals worked side by side to construct the competition home. This project has provided significant educational opportunities for the students. If enough money is raised to fund this project, the house will return to campus to be used as a laboratory for students and a workshop site for the surrounding community.

For more information or to follow the team’s activities during the competition go to the Web site: http://solar.colorado.edu
Sustainability – What is It?

by Ann Darby, AIA

We have all heard the buzzwords “sustainable development,” “green architecture,” and “environmentally friendly design.” Recently, BP Amoco, Ford, DuPont, and Shell (just to name a few) have been published in their efforts of improving the standards of their businesses to benefit the environment. William McDonough, FAIA, a pioneer of eco-efficient thinking, has been practicing his environmental ideals. What does all of this really mean? The idea of building a sustainable environment is something we as developers, architects, and builders all need to understand. In general, the model of designing for sustainability incorporates doing more for less which means using fewer trees, generating less waste and pollution, using less energy and replacing consumption with renewable sources of energy, and recycling materials. In a place like Colorado, in which we are responsible for preserving the resources and environment that surround us, it is essential for us to think progressively about green building.

While the possibilities of effective land development, commercial and home building are endless, the goals is to change the thought process from design through construction. As architects, we can build upon natural processes and energy flows by regulating energy flows from the sun and wind. We can implement solar panels and sod roofs that reduce solar heat gain and increase energy efficiency. We can reduce waste by incorporating composting toilets. We can create cleaner indoor air by specifying products with low volatile organic compounds and incorporating natural ventilation. As mentioned, the possibilities are expanding, however, there are guidelines to assist architects in progressing towards designing eco-efficient buildings. One government-sponsored program is the US Green Building Council’s LEED® (Leadership in Energy and Environmental Design) Rating System. This Rating provides a “national standard which aims to improve environmental, health, and economic performance of buildings using established and/or advanced industry principles, practices, materials and standards.”

A local example of a completed LEED rated project is the Sundeck restaurant on Aspen Mountain. The architect, Cottle Graybeal Yaw, and the client, Aspen Ski Co., worked closely together to incorporate features to qualify the project for the LEED Rating. The design team applied processes of energy and water conservation, a waste management and recycling plan, construction air quality plan, and use of low “VOC” (Volatile Organic Compounds) products. The Aspen Ski Co. purchased renewable energy from wind power and low water-use plumbing throughout the building. An on-site recycling and job site waste recovery program was in place during demolition and construction. An estimated 86% of the original Sundeck was recycled. These efforts in waste management also reduced the waste disposal fees and quantity of material going to the landfill.

For more information on green implementation of the Sundeck design, please contact Doug Graybeal, AIA of Cottle Graybeal Yaw Architects, (970)927-4925 or Auden Schendler, Aspen Skiing Company, (970)923-8628.
There is no more misunderstood and emotionally charged phrase in modern American culture than "Urban Growth." Each individual has his or her own ideas on what constitutes desirable and undesirable patterns of civic development. In addition, numerous experts are arrayed in any number of specialties, each dealing with a different aspect of urban design.

As architects, we have the skills to arrange the physical elements that make up urban settlements. We all recognize, nevertheless, that experts in a wide range of disciplines are needed to effectively manage urban growth. Prominent contemporary architect and urban designer, David Lewis, at the First Denver Urban Design Symposium in 1982, defined urban design as, "politics in three dimensions." That definition more effectively recognizes the complexity of our contemporary planning and development process that each of us practitioners has experienced in recent years.

We do need to scrutinize several points, however, looking back at the history of American urban development since the end of World War II.

The simplistic blame of all of our urban ills on the internal combustion engine and automobile has gone too far. The automobile, for all of its shortcomings, as the answer to all of our urban transportation needs, is not the only villain. The automobile has, in some ways, been a blessing, by us allowing freedom of travel. Automobiles have also benefitted the American economy by providing jobs and capital.

We still have much to learn to find that ideal mix of transit, walking, bike-ways, and transit-pedestrian-based housing patterns that will increase the quality of urban life and economize on the rate of urbanization of our agricultural land.

The fear of traditional city form and culture has driven many to the suburbs. The suburbs, as an urban form, has not served all citizens equally.

The "New Urbanism" that we now hail as the newly found humanizing factor in our 21st Century urban planning is certainly welcome. It is nothing new, however. Many of us have been lobbying for such an approach for several decades.

Jane Jacobs proposed housing "with eyes on the street" in 1961. Further, those of us who have grown up in Denver and any number of older Midwestern town and cities still appreciate those existing examples of front porches and walking to neighborhood shops providing for the daily needs of residents, on sidewalks that are separated from the accessible grid streets by tree lawns.

In the late 1960's, a number of young architects, neighborhood activists, and planners who were put together by the Colorado Highway Department (now, CDOT), wrote the first critical "Analysis" of the auto-only 1963 Denver Metropolitan Area Transportation Study (DMATS). That report led to lobbying and action that formed the Regional Transportation District.

In the early 70's, some of the same individuals devised a proposal for an integrated transportation and urban design study for the region, called RDUS. Blueprint Denver promises to achieve such integration for Denver. A long journey.

(Continued on page 23)
Sustainability requires renewal, and for our profession the key forces are renewed and growth in architectural education. The education goes well beyond what we learn in studio. In many cases, architecture schools are taught to students who see the design and the development of the real world which we can call it upon graduation. It is within this period with a strong influence on our greatest attention should fall. With energy retained from school, interns and young architects are the lifeblood of the overall profession required to include Associates and other key components of the profession, and it is up to all of us to recognize the opportunities which come along. The recent Internship Summit, which we are encouraged to participate in together, to discuss methods of improving internship and other key components of the profession. But it must fall to the interns to interject and enhance local and national levels for interns and young architects to improve their investment in education and for all architects, which we serve. Educating the public, our long term client, is our continued and developing charge as a profession. It is also where we should get our future leaders involved in efforts of building community.

Sustaining Education. One of the nine recommendations of the Collaborative Internship Task Force (CITF) states that "continuous learning and mentorship are fundamental to the profession. The demands of the architectural profession require a lifelong pursuit of knowledge, and acceptance of the obligation to be leaders and teachers." The profession must be committed to providing the continuous learning for all members, and it is up to us to recognize the importance of mentoring to the process. It is our duty to share information, either within and mentor or are mentored by. Specifically, through the exchange between internship internship and those who are learning from, the "culture of internship" must be strengthened.

And it should fall to the intern not to isolate themselves beyond their head phones and within their specific tasks at hand, but become engaged in a culture of shared knowledge they help to create. This culture is the key for the growth of the profession as a whole, and it must be rooted in mentoring.

Sustaining Leadership. In leading and learning we must direct our attention. There are opportunities which come along, like the recent Internship Summit, which are excellent chances as participants to come together to discuss methods of improving internship and other key components of the profession. But it must fall to the interns to interject and enhance local and national levels for interns and young architects to become more involved in and to lead. Leadership is a key skill, which includes both individual motivations and work with group dynamics—qualities needed to reach the highest levels. Louis Sullivan once addressed this matter with respect to our profession, saying:

We have at times individually sought to lead the public, when we were more weakly should have followed and we have, as a body, often followed when with beneficial results, we could have lead.

Sustaining Membership. The most successful way to sustain the membership of an organization is to get people involved early and then keep them active through continued programs they can get involved with and clearly see the benefits from. Currently within the AIA, Associates are the fastest growing membership category and compose about twenty percent of the total membership. Many programs exist on local levels to include Associates but there continues to be a gap in the activity level for this group. On the national level, there have been many efforts to include better Associates representation, including the recent addition of an Associate representative to the AIA Board's Executive Committee. In an editorial response, AIA President Gordon Chong commended this action by saying, "I have no doubt that the Associates, who represent the future of our profession, will enrich the discussion and leadership of the executive committee just as the addition last year of a CAGE member has. Another page in our commitment to inclusiveness has been turned, and I will prove the boldness and wisdom of this move."

Sustaining Community. At the AIA Western Mountain Region Conference of early September near Albuquerque, New Mexico, Dr. David Stuart spoke of the fall of the Chaco Anasazi society and the Pueblo communities which survived because of the Chaco Anasazi society and the Pueblo communities which survived because of the fall of the Chaco Anasazi society and the Pueblo communities which survived because of their investment in community. They built for the living future rather than building monuments for the past. The legacy of the Chaco people is not the artifacts and the architecture, but rather the knowledge that cultural survival comes from hard work in building sustainable communities. These are arguments which can be made for our survival as a people on this planet, especially in regions feeling the affects of changing climates such as our own. But they are equally strong arguments for our profession, as we should be investing in our future through all levels of education internally and to the communities which we serve. Educating the public, our long term client, is our continued and developing charge as a profession. It is also where we should get our future leaders involved in efforts of building community.

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How The Austin Building
Contributes To Sustainability

by Cheryl A. Spectoc, AIA

Tenant manual provided to residents on sustainable practices and usage throughout the building.

Showcase the Austin Building to teach policy makers and practitioners about sustainability.

SUMMARY

Utmost care was given to the design of the living spaces and quality materials were used throughout the building.

Intense coordination with the contractor and subcontractors allowed us to retain original wood molding and trim, floors, doors, cabinetry, original hardware and light wells which give the building much of its character.

Our final result was a project with eighteen affordable rental units which comply with current building code requirements, spotlight outstanding historic features, integrate sustainable practices and materials and contributes to revitalizing the neighborhood. The Austin Building provides its own dimension to the neighborhood, by rekindling historic integrity, pride and the essence of a new community through its unique living and retail spaces. Together, these things resulted in a project for which the owner, the tenants and the community can be proud.

The renovation of a historical building, recycling building materials, use of natural products, energy efficiency and the production of affordable, functional housing constitute the main elements of sustainability at the Austin Building. In the design and development of the project, partnerships were formed with the public and private sector that have an ongoing contribution to sustainability. From the beginning of this project, our team was interested in approaching the "redevelopment" of the building with as much attention as possible being given to the sustainability of the design. Designation for local, state and National Historic Landmark was obtained, validating the integrity and importance of existing buildings and creating community support and pride by recognizing local historic significance of our built environment.

We organized a design charrette during the design development phase, to allow a local chapter of Architects, Designers and Planners for Social Responsibility (ADPSR) to brainstorm ideas with our team (architect, owner, general contractor and key subcontractor) for using sustainable materials and practices throughout the project. Some of the practices and materials included are as follows:

Project Start

Recycle "waste" on site. Volunteer gathered clothing for Goodwill donation.

Deposit all glass bottles, aluminum and newspapers to area recyclers.

Old appliances donated to local Appliance Recycler.

Project Duration

Re-use existing building materials for the project.

Wood panel doors were restored.

Door hardware cleaned and reused.

Kitchen cabinets, medicine cabinets and "ice box cabinets" were all repaired.

Involves Americorps

A national service organization comprised of local 18 to 24 year olds who work to improve their communities and the environment. On the job training was provided in construction and sustainable materials. A total of 5,720 hours were provided on this project.

Project End and On-going

Low energy consumption.

Energy efficient boilers for heat and domestic hot water.

Day lighting incorporated throughout the design of the apartments.

Energy efficient appliances.

Reduced water usage.

Reduced level of toxic emissions by appliances and products used.

Hardwood floors refinshed with waterborne sealer.

Low VOC paints were used.

Low toxic cleaning methods.

Landscape design incorporates native plants and low water use.

Tenants manual provided to residents on sustainable practices and usage throughout the building.

Showcase the Austin Building to teach policy makers and practitioners about sustainability.

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Sustainability
by Eric J. Miller, LEED® Accredited Professional

A client building a new hospital had a picnic at the job site today to celebrate the contractor's recycling efforts during construction. Thus far, they have diverted 100% of construction waste from landfills to local recycling centers. Their efforts are a great example of an attempt at a closed-loop system. In which the materials are generated, used, and re-used. A true closed-loop system recycles 100% of the materials, but this is definitely a step in the right direction. The architects, clients, and local community worked together to make the happen and the job site celebration is a sign that all are pleased with the results.

Consider the materials needed to construct new buildings and the amount of energy necessary to manufacture its contents and structure. Consider the amount of energy consumed once it is operational and the amount of waste generated within that structure. Consider how building affects not only its occupants but also the community it is a part of, both regionally and globally. Experts predict that within the next 50 years there will be more building construction in human history. If this prediction is true, we had better implement methods for achieving sustainable building practices, otherwise we will need to find another habitable planet. Current building practices are gobbling up renewable resources, producing tons of waste for overflowing landfills, and using massive amounts of non-renewable energy that will happen to the planet if we continue to build in this manner.

Sustainability involves utilizing resources and energy without harming which prolongs our existence. An example of sustainability is a building that self-generates all of the energy needed for the operation of that building using renewable energy resources, such as photovoltaic roof tiles, or wind turbines. Another example is cleaning and reusing the wastewater generated within the building. Sustainability does not involve taking, using, and throwing away, but rather generating, using, and reusing in other words a closed-loop system. As the people charged with designing the new buildings popping up all over the country, architects have an enormous role to play in ensuring that closed-looped systems come into play. Finding a new planet is unlikely and we are in the midst of a building boom as the earth's population grows; the financial bottom line. Contrary to common belief, sustainability does not mean compromising finances. Utilizing a closed-loop system often will provide substantial financial savings over the long term, even though putting those systems into place may cost more in the beginning. Architects are in a position to not only inspire but also educate their comrades, clients, and local communities about the long-term financial and planetary benefits of sustainable building practices, instead of merely thinking in terms of the immediate budget. With collaboration, architects can achieve a level of sustainability with lasting global impact. The contractors, clients, and community members who are celebrating today worked together to ensure that the materials used to construct their building matter that can neither be created nor destroyed, is going to be reused, a good first step toward a sustainable future.

(Continued from Front Cover)

West of the 98th Meridian

the impact of these problems and Stuart saw the contrasting fates of the Anasazi and their Pueblo descendants as a parable for modern societies, if not, a lesson in itself about sustainability.

In Colorado, the issue of water highlights the concept of sustainability. The complex web of water in the West again finds a unique place in the country. Unlike the Eastern part of the United States where water rights are determined by land ownership, the tenet of Western water law is first-come, first-served, or first in time, first in right. The first one to stake a claim on water gets the water. As most of you know, the process is called adjudication. To complicate the picture, water rights can be transferred, sold, even rented. Water from underground aquifers is more difficult to replenish than water from mountain snowpack and other surface supplies. It is important to note that water use varies widely. For instance, owners of residential properties along the Front Range are using water at unprecedented rates given an average metropolitan use of 75,000 gallons/person/year. Recent statistics show that in Douglas County, Castle Pines North has

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(Continued on next page)
**West of the 98th Meridian**

The average use is 151,660 gallons/person/year not including the recycled water used in the world-famous golf course!! In Genesse, use is more reasonable with 39,900 gallons/person/year. In Indian Hills there is a low use of 12,722 gallons/person/year. (Ref, Rocky Mountain News; September 14, 2002)

For architects in the West it is no small task to develop appropriate design to handle the many sustainable considerations. Speakers at the recent Aspen Design Conference noted that we have to “design the future, not just live it; that we need to care about the outcome.”

Eric Mallion: Eric is an architectural intern with a construction background including his University of Michigan and University of Colorado education. He provides design and construction document support on the Cohen Ranch facility, the Warner residence and the Louisvile Public works facility. In his spare time, Eric is on outdoors enthusiast and struggling musician.

Gena Gussenbauer: Gena is our new office manager. She is responsible for everything including the phones, invoicing, bookkeeping, human resources and the general day to day operations of the office. In addition to her practical experience, Gena has an Associate of Applied Science Degree in Graphic Design from the Aft Institute of Colorado. We look forward to seeing you at our important 2002 Design Conference in Vail, Colorado on November 8 and 9. AIA

**A Reading List:**

- AnaxEi America by David E. Stuart, Prof, of Anthropology, University of Nebraska Press 1931 pp526
- The Great Hains by Walter Prescott Webb, researcher Susan Moczygemba-McKinsey, Anthropology, University of New Mexico with Cum Laude from Hobart and William Smith Colleges in New York and an architectural intern with 2 years experience in the development and construction document phases of projects. Leila is working on the new Louisville Police and Courts facility and is becoming our house computer tech wizard as well.

**Other Firm News**

Patner, Jeffrey L. Sheppard, AIA was a recent lecturer at the AIA Young Architects Forum. He also chaired the Mississippi AIA Awards Jury and gave two lectures at the Mississippi AIA design conference. Mr. Sheppard is presently serving on the Colorado Convention Center and Hotel Design Advisory committee.

Sifer Designs and The Roaring Fork Club bring home the Gold at the 2002 ARDA Awards

Sifer Designs received the ARDA Gold Award for the interior design of the Roaring Fork Club Member’s Lodge. Every year the American Resort Development Association (ARDA) recognizes the top resort designers, developers, architects and managers with these awards. In the Resort Design, Interior Design – Common Area category, the Roaring Fork Club Member’s Lodge came out on top, up against The Ritz-Carlton Club Aspen Highlands (interiors also by Sifer Designs), and Sheraton’s Vilarosa Village in St. Augustine, FL. Beth Sifer accepted on behalf of Sifer Designs and the Roaring Fork Club during the awards ceremony on April 16 in Las Vegas, NV. The Roaring Fork Club is a private golf and fishing club located in Colorado’s Roaring Fork Valley and was completed in July of 1999.

Sifer Designs was also the recipient of two ARDA Silver Awards for the design of The Ritz-Carlton Club, Aspen Highlands. In the categories of Resort Design, Interior Design – New Resort Unit and Resort Design, Interior Design – Common Area, the Silver Awards were both handed to Sifer Designs. The Ritz-Carlton Club, Aspen Highlands is a high-end fractional ownership residence club that was recently completed at the base of the Aspen Highlands Ski Area in February of 2001.

Christian Pussy recently joined UNIT design studio pc, bringing seven years of professional experience in Architecture and Urban Design.

Graduating first in his class from the University of Applied Sciences in Kiel, Germany, with a degree in Architecture, and special emphasis on design and urban planning, Christian has since managed numerous projects spanning three different continents. Highlights of his experience include: the design and planning of a five star beach resort in Cape Town South Africa, a large scale multi-family housing and mixed-use project in Germany, and most recently, working on the trauma and education center for Denver Health and Hospital Authority in Denver. Christian is a licensed Architect in Germany, and an international associate of The American Institute of Architects.

UNIT design studio, pc specializes in urban infill, adaptive reuse, and historic preservation, and also has experience in passive solar design, timber frame construction, and cost effective material use for residential, recreational, and commercial applications.

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completed the requirement for the

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Professional Engineer's license for the

Reid A. Tucker, P.E.

Neighborhood Development Services, Faith

Action, Saver and Easts, High,

Country Sales and Service, Park County,

and Stapleton Development

Corporation.

Reid A. Tucker, P.E., has successfully completed the requirements for the Professional Engineer's license for the state of Colorado. Mr. Tucker has been an active part of the Burch, Wills and Rattiff Corporation's Denver engineering team since 1999 and has led projects such as the design of roadway improvements to 128th Ave. at Washington St. and Claude Ct. in Thornton, Rosemary Street & W16th Avenue in Commerce City, and tunnel and utility extensions for new and existing buildings at the University of Northern Colorado.

Prominent Female Architect Joins RNL Design in L.A. as Design Principal

Katherine Diamond, FAIA, recently joined RNL Design as Design Principal of the firm's Los Angeles office. Her award-winning project experience includes the landmark LAX All Traffic Control Tower, four light rail train stations on the Los Angeles to Long Beach Blue Line, the University of California at Davis Medical Center Central Plant with Cogeneneration, and the joint U.S. and Canadian Port of Entry at Sweetgrass. Montana, and Coutts, Alberta. Ms. Diamond's design work has been recognized by numerous publications including Architectural Record, Progressive Architecture, Contemporary American Architects and Cost� of Architecture Indiana.

Ms. Diamond's 25 years of experience as an architect includes educational, transportation, civic, transit-oriented development, and community planning projects. Prior to joining RNL Design as Design Principal, Ms. Diamond's career took a unique turn when she left the private practice of architecture to join Lennar Communities' New Urban Development Group as Vice President of Architecture and Public Policy. Ms. Diamond's combined focus on architectural design and urban planning, as demonstrated by both her professional efforts and her years of pro bono service on the LA Board of Zoning Appeals and the Westwood Design Review Board, served Lennar well as they moved into the world of urban development. This year of focus on the development of multifamily housing and mixed-use projects gave her insights into the world of development from the client's perspective, which she looks forward to bringing back into her practice of architecture.

In 1996, Ms. Diamond was elected to the College of Fellows at The American Institute of Architects. Ms. Diamond has also served as the AIA Los Angeles Chapter's first female President in 99 years, as President of the Association for Women in Architecture, on the National Peer Review Council for the GSA Design Excellence Programs, on the Westwood Design Review Board, and on the Los Angeles City Board of Zoning Appeals for 3 years, including one year as Chair. She presently serves on the boards of the St. Barabara Senior Center and the Westside Urban Forum.

Ms. Diamond earned her Bachelor of Architecture degree in Town Planning from The Technion, the Israel Institute of Technology, in 1978 and is a registered architect of California and Brazil.

Committed to education, Ms. Diamond has served as a guest juror and lecturer in architecture programs at universities across the country. For the past six years, she has taught Design Studio part-time at the University of Southern California School of Architecture, and is serving this year as its Noel Fox Visiting Professor of Urban Design.

DTJ Wins Three SMPS Marketing Excellence Awards

Dowling, Thorpe & James (DTJ), a Boulder-based design firm, was recently recognized by the Colorado Chapter of the Society for Marketing Professional Services (SMP)'s 2022 Marketing Excellence Awards. DTJ received awards in the following three categories: Direct Mail (Insights Newsletter), Project-Client Specific Marketing (Marketing Collateral Materials designed by Jennifer Davis of Davis Love Design), and Advertising (DTJ's Logo Campaign)

DTJ provides architecture, planning, landscape architecture, urban design, and environmental graphic design for clients nationwide.

CommArts Hired for Australian Retail Project

Communication Arts (CommArts), a Boulder, CO multi-disciplinary design firm, has been engaged by Queensland Investment Corporation (QIC), one of the largest institutional funds managers in Australia, to work on theming, branding and graphics for Watergardens Town Centre, an urban retail village to be built 25 miles west of Melbourne city center in Victoria, Australia.

CommArts will work with the architects for Watergardens, The Busch Group, headquartered in Melbourne. Services will focus on common areas, special features, amenities, and place/brand strategy. QIC initially contacted CommArts as a result of seeing the Boulder firm's award winning design work on The Block of Orange (California), an entertainment/retail center owned by The Mills Corporation.

QIC manages investments for the public sector: the Queensland Government, and other select Investors. A government owned corporation established in 1991, QIC operates on a wholly commercial basis, providing competitive service and achieving returns that consistently rank it among the most successful funds managers in Australia. QIC's staff of 180 is based in Queensland in Brisbane's central business district.

CommArts specializes in bridging brand and place and works in the areas of identity and graphic communication, environmental graphic design, and placemaking. CommArts, designers draw upon backgrounds and education in architectural, industrial design, graphic and interior design. The firm has completed numerous and diverse projects, including an award winning identity program for Value Retail, London; Volt Resorts and the Downtown Boulder Mall, retail design of the new JFK International Arrivals Terminal in New York City; an award-winning Web site for Uptown Houston; a dozen sports facilities such as Madison Square Garden and Staples Center in Los Angeles; over 50 shopping centers including Diagonal Mar in Barcelona, Prudential Center in Boston, Park Meadows in Denver, Dolphin Mall in Miami, and Mall of Georgia in Atlanta. The company employs 52 and is located at 1112 Pearl Street, Boulder, Colorado.

Established in the year 2002.

Bender Design Studio, LLC is an Architectural Firm located in Parker, Colorado, with a wide range of experience in commercial and residential architecture. Project types include...
Powers' Progress

Powers Total Openings is pleased to announce that Sharon Wilson has been promoted to the position of Operations Manager for its Littleton branch.

Mrs. Wilson began her career in the Commercial Door, Frame, and Hardware industry in 1991, before joining Powers in 1994. Since then, she has served as a Project Manager and Detailer while gaining her credentials as an Architectural Hardware Consultant. In her new role, she will be responsible for all processes and personnel involved with order fulfillment. Mrs. Wilson graduated from Pepperdine University in 1990.

Powers Total Openings has been a leading supplier of Commercial Doors, Frames, and Hardware throughout the Front Range since the 1980's. Recent projects include the Denver Civic Center Office Building, CU Research Complex One at Rasmussen, and Skyridge Office Building, CU Research Complex.

The Roybal Corporation

Rude Recreation Center

Project Info:
Building Location: Denver, Colorado
Building Type: Recreational Facility
Building S.F.: 42,000 s.f.
Building Cost: $7.9 million
Client: The City and County of Denver
Department of Parks and Recreation

The location and form of the building is responsive to the site constraints. There is a restrictive flood way to the north, an existing child care center to the south east, and a city baseball field to the southwest. The new center will be located between these features and amenities and is designed to take full advantage of the beautiful park setting and its views of downtown and the new Broncos stadium.

La Alma Recreation Center

Project Info:
Building Location: Denver, Colorado
Building Type: Recreational Facility
Building S.F.: 4,000 s.f. addition, 900 s.f. renovation
Building Cost: $790,000
Client: The City and County of Denver
Department of Parks and Recreation

The design of the new senior center located at the La Alma Recreation Center extends the range of services offered to the surrounding neighborhood. The new senior center will provide facilities for an expanding arts and crafts program as well as providing flexible multipurpose space to conduct a wide range of community events.

The project includes a large multipurpose room, game room, arts and crafts room, reading room, offices, renovated kitchen facilities and a computing and conferencing room.

Denver's most recognized supplemental meal and youth assistance programs.

Mr. Mauro graduated from Colorado State University in 1990 with a degree in Construction Management.

Mr. Mauro is over 8 years of construction industry experience initially serving as Field Engineer for a local general contractor, and serving the last three years as an Owners Representative for a national hotel developer. He will be responsible for introducing this award winning Clay Tile Façade system to the Colorado market place for the first time. Mr. Mauro graduated from Colorado State University in 1993 with a degree in Construction Management.

Powers Architectural Products is a subcontractor of various commercial building systems including Kalwall Translucent Skylights and Walls, Skyline Glass Skylights, Modernfold Operable Partitions, Hussey SpectraLo Seating, Smoke Guard Elevator Lobby Smoke containment, and Moedding-Alphatone Clay Tile Façades. For each of these systems, we provide architectural design assistance, in house installation and project management, and after market services.

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The Rude Recreation Center is a medium sized Colorado based general contractor specializing in commercial, light industrial and historic preservation construction. Ash & White has had the opportunity to successfully work for hundreds of private and public clients in Colorado and can be contacted by mail at: P.O. Box 97, Castle Rock, CO 80104, or by phone at: (303) 685-6934 or www.ashandwhite.com.

The Roybal Corporation provides programming and design services for the Rita Bass Trauma and EMS Education Institute. The education, training, and research center is an extension of the Denver Health Hospital campus.

The Institute provides training and education facilities for the world renowned trauma center, paramedic division, and emergency medical services. The center will conduct extensive off site training for rural and remote communities through integrated satellite uplink and video production facilities.

In addition to its emphasis on production through technology, the program includes a large auditorium, classrooms, personal training stations, offices, reception area, waiting room, and catering facilities for fund raising events.

Rude Recreation Center

The design is reflective of the local culture and is evocative of the modern Mexican architectural movement of the "wall culture." The use of brilliant colors is intended to complement the existing mural by local regional artist, Emmanuel Martinez. The bold form transforms the existing nondescript building into a focal point for the community.

DHHA Rita Bass Trauma & EMS Education Institute

Project Info:
Building Location: Denver, Colorado
Building Type: Adult Educational Facility
Building S.F.: 16,000 s.f.
Building Cost: $3.8 million
Client: Denver Health & Hospital Authority

The Institute provides training and education facilities for the world renowned trauma center, paramedic division, and emergency medical services. The center will conduct extensive off site training for rural and remote communities through integrated satellite uplink and video production facilities.

In addition to its emphasis on production through technology, the program includes a large auditorium, classrooms, personal training stations, offices, reception area, waiting room, and catering facilities for fund raising events.

Professional Project Management Course

• Contractual communications
• Communication process and interfaces

Module 5: Contract Management
• Types of contracts
• Contract administration
• Contract negotiation

Module 6: Cost Management
• Cost estimating and forecasting
• Cost budgeting
• Cost controls

Module 7: Risk Management
• Risk types and identification
• Risk response planning
• Risk detection and mitigation

Module 8: Human Resource

(Continued on page 22)
(Continued from page 21)

Professional Project Management Course

Management

- Organization types
- The project team
- Employee relations

Module 9: Integration

- Project management plan
- Project management process groups
- Develop measures of success

Dates and Times:
Five evenings, Nov 2002; Tues-11/5, Thurs-11/7, Tues-11/12, Thurs-11/14, Tues-11/19, 6:00-9:00 PM

Cost: $915 (includes all materials)

Location: The class will be held at CU Interlocken, located at Level 3 offices in Broomfield, Colorado.

Directions will be included with registration confirmation.

Continuing Education:
Participants who successfully complete the course will be awarded a certificate of completion and earn 1.5 Continuing Education Units (CEUs). Also available, as applicable, are 28 PDUs (Professional Development Units) through the Project Management Institute or 15 LUs (Learning Units) through the American Institute of Architects. AIA

(Continued from page 8)

U.S. Green Council Checklist

buildings are designed, built, and maintained. No other organization represents the entire green building industry. Our unique coalition of members from every discipline of the building industry is rapidly transforming the marketplace.

You are invited to explore our programs and resources, and to join the growing green building community. By joining the Council and actively participating in the programs and committees, you will help speed the adoption of green building practices and become more knowledgeable as well. You will find that your involvement in the U.S. Green Building Council will expand your knowledge of sustainable design, strengthen relationships with industry leaders and practitioners, and provide access to new products and emerging trends. You will learn how to educate your clients, design better buildings, and promote sustainable practices.

Local Chapter for the State of Colorado

The first organizing meeting for establishing an USGBC Colorado Chapter was held this August with 28 folks attending, including the USGBC staff.

Chapter Coordinator from Washington, D.C. The primary goals of USGBC Chapters are 1) collaboration, 2) networking and 3) education. The process for establishing a local chapter is to first be established as an Organizing Group, then a Provisional Chapter and finally a Full Chapter with its own 501c3 status. We have now formed a steering committee and subcommittees, which consist of:

Education / Program / Events
Networking
Collaboration
Finance

USGBC Chapters across the country provide on-the-ground resources and networking for green building practitioners. Meet green building experts in your area, help speed the adoption of green building at the local level and tour green building projects by joining your local chapter.

Conference and Exposition

The U.S. Green Building Council (USGBC) will launch its First Annual International Green Building Conference and Exposition, November 13-15, in Austin, Texas. The Conference and Exposition will provide a much-needed "meetingplace" for the rapidly expanding and dynamic green building industry. It will serve as the pre-eminent showcase for leading edge green technologies worldwide and will provide an outstanding educational program that highlights benchmarks of sustainability across a broad array of issues affecting site location and development, water use, energy, materials, indoor environmental quality, biophilia, health and productivity, financing, and many technologies and systems supporting such interests. The USGBC’s goal is to be inclusive, showcasing not just what the Council and its members have to offer, but to feature the best green building contributions from supporting industries, organizations, and the public at large.

Summary

Now you do know what a profound impact our buildings make on our natural environment, economy, health and productivity. Now is the time to get involved and make a positive difference with the work you do.

"We shape our dwellings, and afterwards our dwellings shape our lives."—Winston Churchill

Spector and Associates, P.C. has been a member of the USGBC for five years. Cheryl A. Spector is a member of the Steering Committee for the Colorado Chapter and a member of LEED-4 Technical Advisory Group. Spector and Associates, P.C incorporates sustainable practices in all their projects and development. Spector and Associates, P.C provides consulting services for LEED and sustainable building methods and materials.

Colorado 2002 Renewable Energy in Buildings Awards

Project, see:
CRES-energy.org/Reba_Shumes.html

The Colorado 2002 Renewable Energy in Buildings Awards winner for residential buildings was:
McSloan High Plains Environmental Center in Longmont

CRES presented the award to McSloan Neighborhoods, building owner and builder, in Loveland. In addition, CRES presented a certificate of recognition to Bloodgood Sharp Butler Architects in Scottsdale, Arizona. For more information about this project, see:
CRES-energy.org/reba_harmony.html

CRES is the largest membership organization that advocates for energy efficiency and renewable energy in Colorado. Now in its fifth year, CRES is a state chapter of the American Solar Energy Society (ASES), and has about 500 members consisting mostly of professionals working in energy related fields across the state. For more information about the Colorado 2002 Renewable Energy in Buildings Awards, visit the CRES Web site at: http://cres-energy.org/newpub.htm AIA
Sustainability in Urban Growth

anticipated victory for comprehensive planning.

The DRCOG MetroVixon 2020 promises to create, on the Front Range, Ebenezer Howard’s 1902 vision for walkable “Garden Cities,” separated by green spaces and connected with transit at a new scale for this region and supports the concepts of what U.S. Department of Transportation used to call “joint development” of land at transit stops for residential and economic density – now called Transit-Oriented Development (TOD). Again, this is nothing new, but finally, a direction for intelligent management of urban growth.

All of the above paints a rosy picture for the future of urbanization of the Front Range. Getting back to David Lewis’s definition, however, that is definitely not the case in statewide politics. The Colorado legislature is not at all of one mind on the subject of “intelligent growth.” The failure of the Governor to support the transmountain, I-70, DIA-to-Koel transit referendum is one indicator. The hesitant way the Colorado legislature gave half-hearted approval to RTD’s bid to raise its small portion of the regional sales tax for “Fastroads” is another.

While some may believe the exciting proposals for change in our concepts of urban are too radical and others may believe they are “slamming the barn door after the horse has fled,” I believe they are most welcome. The coming of Blueprint Denver and DRCOG’s MetroVixon 2020 are, most positive steps which should be encouraged.

I believe that it is incumbent upon us architects to support all of the new/old initiatives to achieve a higher quality of integrated and cohesive urbanization, including:

- economy in the use of water, land, and utility infrastructure
- a balance of all modes of transportation
- accessible and understandable street grids
- eyes on the street
- sidewalks separated from streets by tree lawns
- parking access off of alleys, etc.

We can learn from past errors. We are not doomed to repeat them if we have the courage to carry through the visionary plans that are now before us.