

RESPONSE TO REQUEST FOR QUALIFICATIONS
FOR

UNIVERSITY OF OREGON
PACIFIC HALL BASEMENT AND FIRST FLOOR LABORATORIES



October 21, 2015

LorenBerryArchitect

41601 MADRONE, SPRINGFIELD, OREGON 97478 TELEPHONE (541) 896-3692 FAX (541) 896-0231

October 21, 2015

Fred Tepfer, Project Planning Manager
ftepfer@uoregon.edu
Campus Planning, Design and Construction
1295 Franklin Blvd., 1276 University of Oregon
Eugene, OR 97403-1276

Re: RFQ Pacific Hall Basement and First Floor Laboratories

Mr. Tepfer and Architect Selection Committee:

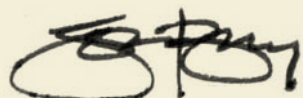
Thank you for the opportunity to submit our qualifications to provide architectural services for the Pacific Hall Basement and First Floor Laboratories.

Our firm is experienced in conducting needs assessments and design of Public projects in general, including educational facilities, and laboratories in particular. We also have extensive experience in building renovations and re-use. We have previously had the pleasure of working with the U of O in creating numerous labs within existing science buildings.

Our proposed staff and consultants, and project references are included under the last two sections in this response. The firm's selection process contact person is Loren Berry, who would also serve as the project Architect of Record. Email lberry@berryarch.com.

Thank you for considering our firm for this important project. We look forward to again serving the University of Oregon.

Sincerely,



Loren R. Berry, FCSI, CDT, AIA
Principal

1. BUILDING RE-USE SKILL

Demonstrating your team’s overall design skill and ability to create designs for building re-use that breathe new life into old buildings, create attractive research and learning environments that students and faculty want to use, provide excellent energy-efficient enhancements, and creative yet sound results that will benefit the University for decades to come.

LOREN BERRY ARCHITECT experience with previous University of Oregon science laboratories is discussed under heading #2. The firm is experienced in creating designs for building re-use, bringing new life into old buildings. Examples are described and shown below, or under the Reference Projects heading at the end of this document. These projects include:

- City of Ashland Community Development and Engineering Services Building
- City of Eugene Police Forensics Evidence & Property (includes Crime Laboratory)
- City of Eugene Police Headquarters Building
- Oregon Eye Consultants
- SELCO Community Credit Union, Portland, Oregon

and an example learning environment:

- Glide High School Reconstruction/Expansion

Community Development & Engineering Services Building City of Ashland, Oregon

The project consisted of the conversion of an existing Shriner’s Temple to a City office building. The renovation of 6,500 sq. ft. and addition of 3,900 sq. ft. houses the City’s Community Development and Public Works Administration & Engineering Departments. The building is located in the downtown area adjacent to Ashland Creek and Winburn Way across from beautiful Lithia Park.



Lobby



Exterior entrance



Conference Room

Police Headquarters City of Eugene, Oregon

We have provided architectural services to the City of Eugene on numerous interior renovation projects, as well as new facilities, including police and fire. The Police Headquarters project was one of the most recent, though not the last.

LOREN BERRY ARCHITECT served as Police Design Consultant to PIVOT Architects of Eugene. Services included space needs assessment and concept design for the conversion of a Country Club Road office building. This is significant in that space was needed to be found for all the police operations within an undersized existing building and within a limited budget.



Glide High School Reconstruction & Additions **Glide, Oregon**

The high school project consisted of 2 phases:

- Phase A: New Library & Science Building
- Phase B: Addition of auxiliary gym and lobby; renovation of main gym, locker rooms, and classrooms, new windows, siding, and renovated HVAC and plumbing systems.

Two other overlapping phases included:

- Phase C-1: Renovation of Middle School plumbing.
- Phase C-2: Renovation of Elementary School HVAC and plumbing, new windows and flooring.

Completion of all phases: 2010

Construction Cost: \$8,000,000



Glide High School Campus Reconstruction



Glide High School Main Gymnasium Entrance

2. CREATING SIMILAR SPACES & SYSTEMS

Demonstrating specific experience with creating buildings, systems, and spaces likely to be found in this Project, including:

- 21st century laboratories that are attractive, human-scaled work environments that are also friendly to change and adaptation over many decades;
- Collaborative work areas and shared spaces that foster interaction while also supporting individual tasks;
- Design for future flexibility at little or no cost premium;
- Lean construction approaches that provide maximum long-term effectiveness yet use resources extremely effectively; and
- Renovation of existing buildings to insert 21st century research labs.

Our firm has provided architectural services for several U of O laboratories. We have also designed a number of police forensics laboratories. Additionally, we have designed high school science labs.

University of Oregon Laboratory Examples:

Bohannon Lab

Green Lab

Onyx/Bridgham Lab

Nazin Lab (Klamath)

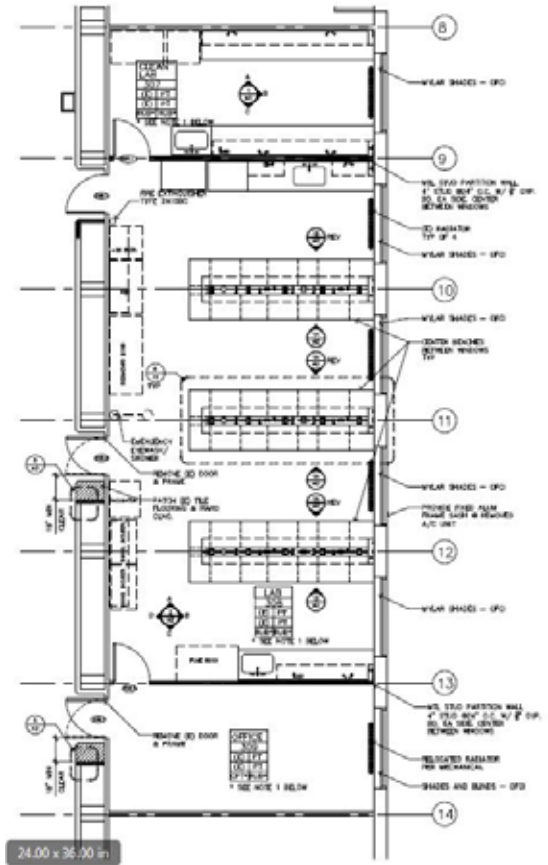
Pacific Hall Lab #314

Thornton Lab

Streisfeld Lab

Lab #318

Frey Lab



U of O Bohannon Lab Interior Photo and CAD Floor Plan



Police Forensic Laboratory Examples:

City of Eugene Forensic Evidence & Property Control Facility

(Please see description under Reference Projects)



Eugene Forensic Evidence & Property Control Facility

**Oregon State Police
District III Headquarters
Central Point, Oregon**

In addition to the District Headquarters, the project includes the Patrol, **Crime Laboratory**, Southern Region Dispatch and Coroner’s facilities. The total facility is approximately 28,300 sq. ft.



OSP Headquarters Building



OSP Crime Lab

School Science Laboratory Example:

Glide High School Reconstruction and Additions

(Please see description under heading #1)



Glide High School Library & Science Building Addition



Glide High School Science Classroom/Lab

4. U OF O & STATE STANDARDS EXPERIENCE

Demonstrating experience with designing buildings meeting the standards similar to those of the institution and the State of Oregon, including:

- a. Highly sustainable projects that push the envelope for sustainable design in ways that maximize environmental performance without excessive cost:
 - Policies similar to the University of Oregon Model for Sustainable Development (OMSD) as described in *Campus Plan Policy 10*
- b. Projects designed within the framework of the University's *Campus Plan* or similar requirements.

LOREN BERRY ARCHITECT has long employed sustainable design principles beyond those that would be categorized as merely good building practices. Two projects for the City of Eugene serve as examples: Fire Station #11 and The Forensic Evidence & Property Control Police Facility. City staff and LOREN BERRY ARCHITECT'S team members carefully analyzed strategies for sustainability, considering benefits and costs, resulting in the application of a number of strategies.

Sustainable strategies for Fire Station #11 included:

- On site storm water detention
- Driveway apron drainage system with diverter allowing switching from storm drain to sanitary sewer during truck washing.
- Radiant heating system for apparatus bays.
- Solar hot water heating.
- Shower waste water heat exchanger.
- Daylighting.
- Use of local materials



City of Eugene Fire Station #11

Strategies for the Police Facility included:

- On site storm water detention.
- Bioswales.
- Building orientation for optimum daylighting.
- Daylighting; especially for evidence and property storage, and laboratory spaces.
- Daylight and motion control light switching.
- Use of local materials



Ashland Community Development and Engineering Services Building

Another public facility in which the firm applied significant sustainable principals was the City of Ashland Community Development and Engineering Services Building, where extensive use of skylights and clerestory window lighting was used, along with multiple level lighting controls, among other applications.

SOLARC Engineering and Energy + Architectural Consulting has developed one of the most highly respected Energy Efficiency Analysis teams in the region. Their expertise and experience is demonstrated in the following outline:

SPECIALIZED KNOWLEDGE AND EXPERIENCE IN COMPLETING WORK IN OCCUPIED FACILITIES

SOLARC has extensive experience in the implementation and organization of project phasing and design to accommodate completion of necessary work in occupied facilities. The following are recent projects in which the facilities were occupied:

- Lane Community College – Building 11 – HVAC Improvements
- Food Innovation Center, Oregon State University – Controls upgrade and HVAC Improvements
- Community Outreach Emergency Shelter, Corvallis, OR – HVAC Upgrade

- Slocum Health Center, Eugene, OR
- Lane Community College – Building 2
- Casey Eye Institute, Oregon Health Science University

SEED ANALYSIS

Among the many education facilities for which we have provided life cycle costing and value engineering are the following State Energy Efficiency Design (SEED) projects, in which SOLARC staff have either performed in the role of SEED energy analyst or have had direct review responsibility of the SEED process:

- Moshofsky Center, University of Oregon, Eugene, OR – SEED Analysis
- Fenton Hall, University of Oregon, Eugene, OR - SEED Analysis
- Allen Hall, University of Oregon, Eugene, OR - SEED Analysis
- Eslinger Hall, University of Oregon, Eugene, OR - SEED Analysis
- Alumni Center, University of Oregon, Eugene, OR - SEED Analysis
- Lillis Business Complex, University of Oregon, Eugene, OR - SEED & Energy Analysis
- Autzen Stadium Expansion, University of Oregon - SEED Analysis
- PK Park Stadium, University of Oregon - SEED Analysis
- Health & Wellness Building, Western Oregon University, Monmouth, OR – SEED Analysis
- Gill Coliseum Renovation, Oregon State University - SEED Analysis
- Hawley Hall, Oregon State University, Corvallis, OR - SEED Analysis
- Clatsop Community College - SEED Analysis, Sustainability Consulting

The firm also provided SEED & Energy Analysis for the Oregon State Police Lab, Salem, OR

LEED PROJECTS

SOLARC has been involved in the following LEED education facilities projects. Their roles have ranged from specific focused scope activities, such as commissioning, to comprehensive responsibility for the entire design and submittal process related to LEED. In all projects, they have interacted with the United States Green Building Council (USGBC) as appropriate, and have completed the applicable submittal paperwork related to their responsibilities. SOLARC is a USGBC member.

- Evans Harvard Music Conservatory, daVinci Arts Middle School, Portland, OR – LEED Platinum
- Center for Business and Industry, Chemeketa Community College, Salem, OR – LEED Gold
- Campus Activities Building, Evergreen State College, Olympia, WA – LEED Gold
- Baker Prairie Middle School, Canby, Oregon – LEED Gold
- Health & Wellness, Lane Community College, Eugene, OR – LEED Gold Pending
- Lillis Business Complex, University of Oregon, Eugene, OR – LEED Silver
- North Salem High School, Environmental Learning Center, Salem, OR – LEED Certified
- Pacific University Health Professions Building, Portland, Oregon – LEED Silver
- The Dalles Middle School, The Dalles, Oregon – LEED Silver

5. PROJECT PROCESSES EXPERIENCE

Demonstrating experience with the processes expected to be followed by this Project, including specifically:

- a. Creating design concepts through a high level of involvement of building users;
- b. Exhibiting the ability to listen to user needs and communicate effectively with a broad spectrum of communities using a wide range of media – written, graphic, and oral;
- c. Designing projects with multiple construction phases and adjacent occupied spaces;
- d. Practicing creative and effective project, schedule, and cost management techniques to accurately predict total building costs within the local area and to ensure that the University's resources are used most effectively without compromising the core values of the Project; and
- e. Working collaboratively using integrated design principles with an owner, contractor (preferably in a CM/GC situation), and others to create the best possible project within an owner's budget and schedule.

Our firm has frequently been involved in the design of projects in which there is a high level of involvement of building users. Please see heading #6 for a description of how we propose to involve and listen to building users.

We are experienced in working on projects with multiple construction phases and occupied adjacent spaces. And, our project management approach includes regular reviews of schedules and estimated costs. We work well within the Construction Manager/General Contractor (CM/GC) construction approach.

The following representative projects demonstrate these attributes:

**Fire Station #11
City of Eugene, Oregon**

This facility was constructed on the site of an existing fire station which needed to remain operational during construction of new facilities.

The City of Eugene's newest fire station was constructed on the site of a temporary fire station, consisting of a house used as living quarters, and a tent to house the fire apparatus. These elements were in the way of some of the new improvements, yet neither could be removed until the replacement facilities were completed. Further, fire department operations had to be continuous throughout the construction process. Additionally, because the City Planning Code limits the duration a tent can be used as a temporary facility, one of the new apparatus bays needed to be available for use prior to completion of the rest of the building.



Exterior at Entrance

The design conformed to the Fire Department's desire for a particular exterior character.

Another scheduling and design issue arose due to poor soil bearing conditions. It was necessary to surcharge the site with a deep gravel overburden for several months to compact the soil. The gravel had to be placed over the new building footprint without interfering with the existing buildings or fire department operations. Construction could not start until the site compaction was completed.



Dining/Kitchen Area

The design site compaction, completion of the apparatus bays, tent removal, and completion of the remaining parts of the facility and site work were done on schedule. This required careful scheduling, coordination, and cooperation by the City, Architect and Construction Manager/General Contractor.

**City of Eugene
Police Headquarters**

Please see description under heading #1.

Glide High School

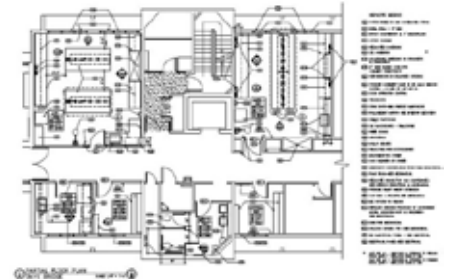
Please see description under heading #1.

6. CREATING COLLABORATIVE LABORATORY ENVIRONMENTS

Inclusion in your materials a one-page essay describing how you will meet the challenge of creating collaborative research laboratory environments that are also affordable and provide appropriate long term flexibility.

We will begin the process by issuing a questionnaire to the Project Leadership and assigned users. The purpose is to get all involved in considering individual and collective needs. The response will give the Design Team an initial project understanding and enable us to prepare further questions and lead the ensuing kick-off meeting and individual meetings to develop the program. The questionnaire will cover such issues as:

- Current and future issues
- Functional and building requirements
- Organizational considerations
- Internal and external adjacencies
- Public interface – in any
- Future and long term needs
- Existing facility descriptions – pros and cons
- Staff work spaces
- Special and support spaces
- Share spaces
- Environmental needs, including lighting/blackout, power, HVAC
- Special finishes and equipment
- Individual comments



Partial Floor Plan – U of O Onyx Bridge Lab

Notes resulting from the completed questionnaires and information obtained in the kick-off and individual meetings will be provided for review. With approval of these notes the Design Team will begin the design of individual and collaborative spaces – and the project as a whole.

A key to providing an environment that is functional, pleasant, yet also affordable while providing an appropriate long term flexibility is simplicity.

This simplicity would begin with the spaces and include building systems and materials. We will be looking for common denominators in all these considerations. We will work with the CM/GC throughout the design process to achieve an appropriate design that is affordable.

It has been said that ‘total flexibility is nothing’. Therefore, it is important that we seek a balance. While looking to make the facilities function for multiple uses, we must be certain they function for the individual uses.

A number of alternative concepts will be presented to the leadership and users. Working together, one or a combination of the concepts would be selected for further development and refinement; ultimately resulting in construction completion, occupancy and operation.

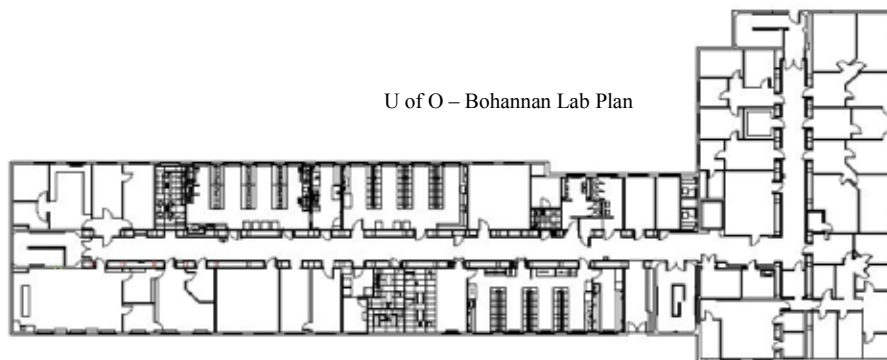


U of O – Green Lab



U of O – Cresko Lab

U of O – Bohannon Lab Plan



PROJECT TEAM

LOREN BERRY ARCHITECT

Proposed Team for the Pacific Hall Basement and First Floor Laboratories

Firm & Personnel	Responsibility
LOREN BERRY ARCHITECT <ul style="list-style-type: none">• Loren R. Berry, Architect, FCSI, CDT, AIA• Chris Moore• Stephen Norris	Architect of Record Project Architect Project Manager Production
SOLARC <ul style="list-style-type: none">• Galen Ohmart, AIA LEED AP• Grant Bowers, P.E., LEED AP • Mike Hatten, P.E	Environmental/Mechanical Principal, LEED Consultant Senior Mechanical Engineer and Plumbing Designer / LEED Principal, QC review
PARADIGM ENGINEERING <ul style="list-style-type: none">• Jim Krumsick, P.E.	Electrical Engineer Engineer
CM/GC	Cost Estimating

Resumes follow.

LorenBerryArchitect

41601 MADRONE, SPRINGFIELD, OREGON 97478 TELEPHONE (541) 896-3692 FAX (541) 896-0231



Loren R. Berry, FCSI, CDT, AIA

Mr. Berry has over 35 years of architectural and construction experience. Because of his involvement during the design and construction of projects, he has an eye for practical, functional and aesthetically pleasing designs. Besides typical design services, Loren has served institutional clients with feasibility analysis, site selection, budgeting and other pre-design assistance, coordinating schedules, construction management and other services. Many projects involved phased construction, often with multiple contractors and interrelated to a set of department relocations to maintain operations. Loren has experience with adaptive reuse, renovation and facilities maintenance strategies.

Current projects: A building condition report for Blachly-Lane Electric Coop, Eugene School District 4J Ellis Parker Elementary School Security Fencing and Wall Waterproofing, and Renovations and Upgrades to Oregon Community Credit Union, Chad Drive Branch.

Examples of recently completed projects: City of Eugene projects including; HVAC upgrades for the Hult Center and the 911 Communication Center, Security Upgrades at the Police Forensics & Evidence Storage Building and a Communication Tower in Vida. Space needs and planning for Oregon Community Credit Union Corporate Offices, Employee Housing at Carmen-Smith Hydro Electric Facility for the Eugene Water and Electric Board, SELCO Community Credit Union branches including a renovation in Portland and a new branch in West Eugene.

EDUCATION:

University of Oregon
Bachelor of Architecture, 1984

REGISTRATION:

Oregon #2822
Washington #10612
Idaho #AR-2430
Arizona #35714
Certified: NCARB (National Council of Architectural Registration Boards)

EXPERIENCE:

Briscoe & Berry Architects AIA
Eugene, Oregon 1979 – 1981
Brockmeyer McDonnell Architects
Eugene, Oregon 1983 – 1986
The Balzhiser Group Architects
(TBG), Eugene, Oregon 1986 – 1988
Loren R. Berry AIA Architect
Eugene, Oregon 1988 – 1991
Berry Architects, P.C.
Eugene, Oregon 1991 – 2010
LOREN BERRY ARCHITECT
Springfield, Oregon 2010 – Present

PROFESSIONAL ORGANIZATIONS:

American Institute of Architects
Southwestern Oregon Chapter
Construction Specifications Institute (Fellow)
Willamette Valley Chapter
Institute Director, (National Board)
2007 – 2009, 2010 – 2012
Member: International Code Council (ICC)
Member: International Association of Chiefs of Police (IACP)

BOARDS:

Deerhorn Community Water Association
Board Member 2005 – Present

LorenBerryArchitect

.....
41601 MADRONE, SPRINGFIELD, OREGON 97478 TELEPHONE (541) 896-3692 FAX (541) 896-0231



Chris Moore, RA

With over 13 years of architectural design experience Chris has expertise and experience in commercial development, affordable housing and historic renovations. He is an enthusiastic team member and communicates with clients in project management to ensure the results that they desire. He has experience in communicating with government permitting officials, project representatives, contractors and colleagues. He has excellent skills in office and project management systems.

Chris currently is working on the Campbell Senior Center Woodshop Upgrades in Eugene, Blachly-Lane Electric Coop Facility Conditions and Feasibility Study and the Oregon Community Credit Union Headquarters and Chad Drive Branch.



Stephen R. Norris CSI, CDT

With over 17 years of architectural design experience Stephen has made significant contributions in design and project administration services. In his 8 years with Berry Architects and Loren Berry Architect he has contributed his experience to clients in police, educational facilities, retail and office remodels, mixed-use urban infill, hospitality, multifamily housing, and healthcare industries. He has extensive experience with large hotel franchise requirements. While in California he worked on the development of new prototype hotel standards for Larkspur Hospitality LLC.

Stephen currently is working on Oregon Community Credit Union renovation and upgrades to the Chad Drive Branch, renovations to Via Theater Classroom in Santa Clara, CA and a project for Eugene School District 4J Ellis Parker Security Fencing and Wall Waterproofing. Recently completed projects include revisions for the Eugene Police Forensics & Evidence Property Storage Facility He also assisted in the planning for the City of Eugene Police Facility at their new location in a former telephone building. His completed projects include the 22,575 square foot Willamette Valley Cancer Institute, RiverBend hospital complex in Springfield, Oregon, a new SELCO Community Credit Union branch in West Eugene and an interior remodel of SELCO Community Credit Union offices at Gateway in Springfield.



GALEN OHMART, AIA, LEED AP | Principal, LEED Consultant

Galen B. Ohmart is a licensed architect, practicing in the field of architecture since 1988. The focus of his work is in commercial and institutional projects. Galen is LEED accredited and recognized as a leader in sustainable design. He won the 2001 National AIA Architecture + Energy Sustainable Design Award for his design of FOOD for Lane County. He leads sustainable design teams, and was recently the LEED consultant for the LEED Gold Slocum Center. He also brings the following experience to this project – project manager and architect successfully remodeling a classroom building, providing ADA upgrades on multiple buildings, and replacing an elevator on the Lane Community College Campus. He has designed a wide range of projects including medical facilities,

office buildings, manufacturing facilities, and restaurants, involving both new buildings and renovations of older structures. Mr. Ohmart is dedicated to providing his clients with personal service, encouraging maximum client/community involvement in a design process that maintains as its focal point the clients' needs.

Registration: Registered Architect No. 3176, Oregon, 1991, No. 6835, Washington, 1996, No. C32064, California, 2009, No. 7617485-0301, Utah, 2010, LEED Accreditation, 2001

Education: Bachelor of Environmental Design, University of Colorado, 1982; Masters of Architecture, University of Oregon, 1987; LEED (Leadership in Energy and Environmental Design) Training, 2001

Awards: BetterBricks Multi-Disciplinary Team Award: Slocum Orthopedic Health Center, 2010; AIA People's Choice Award, First Place – Multi-Family Housing: The WaterShed, 2008; Oregon Parks and Recreation Design Award 2007 for Willamalane Community Center; AIA People's Choice Award, First Place – Commercial Design: Co-motion Cycles, 2001; AIA Architecture + Energy Sustainable Design Award: Food for Lane County, 2001

Relevant Experience:

- **North Salem High School, Environmental Learning Center, Salem-Keizer Public Schools, Salem, OR** Project Manager / LEED Consultant, LEED Certified
- **Oregon Research Institute (ORI), Eugene, OR** Because of ORI's interest in high performance building design, SOLARC facilitated and provided programming services, design consulting, mechanical engineering design, and LEED services for their proposed building at 10th & Charnelton. Mr. Ohmart provided LEED consulting and coordinated the mechanical, electrical and plumbing design for this project.
- **Oregon Men's Penitentiary, Madras, OR** SOLARC was hired by the architectural firm of DLR Group to provide energy efficient design and LEED consulting for this prison project. Mr. Ohmart provided LEED consulting. This included facilitating a design charrette to engage the design team and identify the energy efficiency strategies that would be explored for the project. Construction Cost \$100,000,000.
- **Slocum Center, LEED Gold, Eugene, OR** SOLARC was the LEED / sustainability consultant and mechanical and electrical engineer for a new 4 story, 80,000 square foot medical building. SOLARC identified a pathway to LEED Gold with the following strategies: natural Daylighting with "smart controls" to ensure constant light levels, passive ventilation, renewable energy through Photovoltaic panels, high efficiency mechanical system, ground source heat pump for heating and cooling, storm water retention and re-use, water efficient landscaping, reduction of the heat island effect roof and non-roof and use of non-toxic materials.
- **St. Luke's Regional Medical Center, Boise, ID** In November 2005, SOLARC held an intensive two-day High Performance Design and Energy Efficiency Workshop with representatives from St. Luke's. The workshop developed a vision for a cost-effective energy efficient hospital complex in which a key initiative would be to use daylighting to create healing environments for patients and excellent working environments for staff. Other project goals were to reduce the combined resource demand and cost associated with energy, water, and waste by 40% relative to current practice with similar facilities and to identify a pathway for attaining a LEED Silver rating.



GRANT S. BOWERS, P.E., LEED AP | Senior Mechanical Engineer

Grant's career began with working for a mechanical contractor, gaining basic knowledge of contracting and construction, and providing an extensive understanding of how designs on paper translate into constructed building systems. Specific construction skills include pipefitting, sheetmetal, insulation, basic carpentry, plans review, and project bidding. Grant's construction experience evolved into engineering and management work which include drafting, design, construction administration, cost and schedule analysis, management of personnel and subcontracts, competitive contracting, configuration management, and quality assurance management. Current consulting expertise includes design, project management, and construction management services for medical, educational and governmental equipment and facilities. This includes extensive experience on institutional facilities including government buildings, medical care projects, cooling for data centers, and cleanroom ventilation. Management experience extensive interpretation of government regulations affecting manufacturing and construction, including procurement regulations and Building Codes.

Registration: Professional Engineering Licenses in Oregon No. 17799PE, 1995; Washington No. 34590, 1997; and Idaho No. 9306, 1999.

Education: B.S., Engineering, University of Idaho; M.S., Business Management (Contracts), Air University (United States Air Force)

Certifications: American Society of Plumbing Engineers (ASPE), Certified Plumbing Designer; US Green Building Council, LEED® (Leadership in Energy Efficient Design) Accredited Professional

Project Manager/Engineer/Designer/CA Experience:

University of Oregon, Eugene, OR: New East Campus Residence Hall (LEED Gold), Science Stores Relocation, Hamilton Dining Hall remodel, University President's Lounge, Lillis Business Center (Chiles, Gilbert, and Peterson Halls).

Oregon Health and Science University, Portland, OR: MRI/Imaging remodel, General Surgery remodel, Nursing Unit Additions (hi-rise with rooftop heliport), Emergency Room and Intensive Care Unit construction, Mark O. Hatfield Neurosensory Research Center and Doernbecher Children's Hospital.

Lane Community College, Eugene, OR: Center for Meeting and Learning addition and remodel

Southern Oregon University, Ashland, OR: University Library addition and remodel. Student Union remodel.

Oregon State University, Corvallis, OR: McNary Dining Hall, Dryden Hall Laboratories, Cascade Hall Ventilation, Milam Hall Remodel, College of Veterinary Medicine expansion

Lewis & Clark College, Portland, OR: Templeton Center Career Management Center Addition, Greenhouse Remodel

Portland Community College, Portland, OR: PCC Sylvania science building remodel

Reed College, Portland, OR: Dormitory steam heating remodels

Beaverton School District: Beaverton High School Classroom Heating/Cooling

Tigard/Tualatin School District: Tigard High School Classroom Heating/Cooling, Fowler Middle School Classroom Heating/Cooling, Deer Creek Elementary School Construction

Hermiston Middle School: Construction Administration

Century High School: Construction Administration

Jesuit High School: Theater Construction Administration



MICHAEL HATTEN, P.E. | Principal, Mechanical Engineer

Michael Hatten, P.E. has been actively involved in analysis, design, and construction of energy efficient buildings since 1981. A professional mechanical engineer in Oregon since 1987, Michael's work over the past 27 years has focused on commercial and institutional projects. He has a profound understanding of the real-world of building system equipment and operations, with a focus on energy-using systems. His experience in diagnosing and troubleshooting building systems carries over into his work with new projects both as engineering design discipline leader and specialty energy efficiency consultant. He has conducted analysis efforts on well over 50 million square feet of institutional, commercial and industrial space.

Registration: Professional Engineer No. 13757, Oregon, 1987; Professional Engineer No. 43923, Washington, 2007

Education: B.S., General Engineering, Oregon State University, 1981

Awards: 2010 BetterBricks Multi-Disciplinary Team Award: Slocum Orthopedic Health Center; 2003 BetterBricks Engineer of the Year Award; 1998 Association of Professional Energy Managers: National Energy Manager of the Year; 1997 Association of Professional Energy Managers: State Energy Manager of the Year

Relevant Experience:

Lillis Business Complex, LEED Silver, University of Oregon, Eugene, OR Energy Modeling, Sustainable Design Consulting, Conceptual Design, Commissioning

HVAC and Plumbing Design, Oregon Health Sciences University, Portland, OR Design of HVAC and plumbing for medical laboratory.

Doernbecher Children's Hospital, Portland, OR Energy efficiency analysis for new hospital on the campus of OHSU.

Multiple Buildings, Oregon Health Science University, Portland, OR SOLARC under Mike's leadership has undertaken a series of energy audits of buildings on this campus. Audits were followed by targeted energy efficient retrofits and retro-commissioning efforts, and of course significant energy use reduction.

BetterBricks New Hospital Design Assistance: Multiple Hospitals Sustainability workshop facilitation, energy and loads modeling, LEED and GGHC guidance for new hospital facilities – St. Luke's Regional Medical Center, Twin Falls, ID; St. Luke's Regional Medical Center, Eagle, ID; St. Peter Hospital, Olympia, WA; Grand Coulee Hospital; St. Patrick Hospital, Missoula, MT; Swedish Issaquah Medical Center, Issaquah, WA; Virginia Mason Medical Center, Seattle, WA; Shriner's Hospital, Portland, OR; Mt. Carmel Hospital, Colville, WA; Island Hospital, Anacortes, WA; Valley Medical Center; Covington, WA; Seattle Children's Hospital, Seattle, WA.

Oregon State Hospital Replacements, Junction City and Salem, OR Energy efficiency design support / consulting for mechanical systems and other sustainability measures for these new 360 bed and 620 bed psychiatric hospitals. Construction cost estimated at \$458 million.

Slocum Orthopedic Health Center, LEED Gold, Eugene, OR Managed and conducted energy analysis, lighting design, and LEED process for new 80,000 GSF orthopedic healthcare center across the river from EWEB. LEED Gold.

Mercy Medical Center Energy Retrofit Projects, Roseburg, OR Planning, pre-design, and analysis for energy retrofit projects at community hospital, elderly care and rehabilitation center, and retirement facility. Project Manager and Engineer.

HVAC Design, Saint Joseph Hospital, Phoenix, AZ Design of HVAC systems for labor and delivery wing.

Resume for James Krumsick

Experience

40+ years of professional experience

Education

B.S., Electrical Engineering

Washington State University, 1972

Registration

Electrical Engineer - Oregon, 1984, #12699PE

Other States with active Licenses: California, Washington, Alaska

Previous Experience

From 1984 thru 2004, Mr. Krumsick was a vice president of Balzhiser and Hubbard Engineers (BHE) and managed the electrical department for BHE.

Paradigm Engineering

For the past 10 years Jim has continued to provide electrical engineering services to select clients through Paradigm Engineering. Since starting Paradigm Engineering in 2005 Jim has been able to maintain working relationships with key clients including the University of Oregon, Oregon State University, Southern Oregon University Lane Community College, School District 4J, Bethel School District, Springfield School District, the City of Eugene and Lane County.

Representative Projects:

- City of Eugene Generator installation for Fire Stations 7, 8, 9, 11, 13 and 15. Project Architect: Lee Kersh.
- City of Eugene Police Department Forensic Storage Facility Improvements: Project Architect: Loren Berry.
- City of 911 Vida Cell Tower Improvements: Project Architect: Loren Berry.
- City of Eugene 911 Center HVAC Improvements: Project Architect: Loren Berry. This project entails replacement of two HVAC units currently serving the 911 Center equipment room.
- City of Eugene 911 Center UPS Improvements: Paradigm Engineering was prime consultant.
- City of Eugene Washington / Jefferson Park Skate Park: Project Architect: Pivot Architecture.
- Public Works Facility Electrical Master Plan, Eugene Library Improvements. Paradigm Engineering is prime consultant.
- Lane County Public Service Building improvements – Pivot Architecture – Architect.
- University of Oregon 2013-2015: Campus wide Lighting Improvements, Primary Distribution System Improvements and Renovations to Esslinger Hall, Optics Lab in Willamette Hall, Anthropology Lab in Condon Hall, Susan Campbell Hall, Oregon Hall, Knight Law School and Natural History Museum.
- Oregon State University 2013-2015: Animal Metabolism Barn, Agriculture Maintenance Facility/Data Center, Campus Way Street Lighting Improvements and Remodel to the Salmon Disease Lab.
- Lane Community College 2010-2014: Campus wide fire alarm and access control system upgrade, remodel to Building 11 ESL and general classrooms, and development of the CCTV and Security System master plan.

REFERENCE PROJECTS

**SELCO Credit Union Extensive Renovation
Portland, Oregon**



This 5,350 square foot credit union was in disrepair when purchased from a failing institution.

The Type V (wood frame) building originally constructed in the 1970's had not been updated or maintained. All new systems and updated materials were used, adding an attractive entry and improved work flow for a modern financial institution.

The project schedule was impacted by several city zoning and development requirements. The project neighborhood carries a City of Portland design overlay designation. Based on the extensiveness of exterior renovations to street-facing elevations, a design review was triggered.

In order to avoid delays inherent in the lengthy design review process, the project was constructed under two permits to separate the portions of the project that were exempt from design review (the interior and non-street-facing elevations) from those where design review was required (street-facing elevations). This approach allowed construction on the first permit to proceed while the design review progressed.



Teller Row - Lobby



Waiting Area - Lobby



Before photo

Location: Forest Park area, Portland, Oregon

Size: 5,350 sq.ft.

Construction cost: \$1,427,222

Completion date: 2014

On Schedule: Yes On budget: Yes

Responsibilities: Loren Berry, Principal Architect
Stephen Norris, Production

Reference Contact: Lisa McCourt, Director of Facilities

Phone: (541) 686-5326 Email: lmccourt@selco.org

**Oregon Eye Consultants
Eugene, Oregon**

This 2,800 square foot remodel project ended up being a complete gut and rebuild of the existing clinic to provide a more efficient work and patient flow.

The existing construction type is Type V (wood), but metal studs and veneer plaster were utilized to reduce construction time.

The construction was completed in 2012 over the winter holiday (16 days).



Location: Eugene, Oregon
Size: 2,800 sq.ft.
Construction cost: \$261,324
Completion date: 2015
On Schedule: Yes On budget: Yes
Responsibilities: Loren Berry, Principal Architect
Reference Contact: Joy Woodke, COE, OCS, Administrator
Phone: (541) 349-5129 Email: joy@oregoneyeconsultants.com

**City of Eugene Police Department
Forensic Evidence & Property Control Facility**

A two story building housing the Police Department Forensic Evidence and Property Control Units, including the Department Crime Laboratory. Tilt-up concrete construction. The Construction delivery method was by Construction Manager/General Contractor (CM/GC).



Location: North Garfield Street, Eugene, Oregon
Size: 17,150 sq.ft.
Construction cost: \$2,895,611
Completion date: 2004
On Schedule: Yes On budget: Yes
Responsibilities: Jon R. "Jack" Berry, Principal Architect
Lore R. Berry, Specifications
Reference Contact: Mike Penwell, Manager Facilities Management
Phone: (541) 682-5547 Email: michael.j.penwell@ci.eugene.or.us