

Brief VITA for Daniel Faoro

Daniel L. Faoro, RA, AIA, B.Arch, M.Arch in Urban Design.

Title/Rank Architecture Department, Associate Professor

Professional Credentials:

Licensed Architect (NCARB recognized exam); Illinois, 1989-to present, Michigan 1990-92(registration discontinued).

Educational Background

Harvard University Graduate School of Design, *Masters of Architecture in Urban Design*, (MAUD) 1981-1983.

University of Illinois at Chicago, *Bachelors in Architecture*, (B.Arch) with distinction in design, 1976-1981.

Academic Awards, Edward J. James Scholar, University of Illinois, Citation of Excellence for Architectural Design, Department of Architecture. The American Institute of Architects Henry Adams Bronze Medal and Certificate of Merit for Excellence in the Study of Architecture, 1981.

Study Abroad-Unite Pedagogique et trois Versailles, France Summer Semester 1978

Academic Positions.

Lawrence Technological University, 2000 Associate Professor, Tenured, 2006. Interim Dept. Chair 2008-to present.

North Dakota State University Department of Architecture and Landscape Architecture 1992-2000, Assistant Professor, Tenure Track, 1992-1998, Tenured-1998, Associate Professor 1998-2000.

University of Detroit, 1990, Assistant Professor, School of Architecture, non-tenure track.

Kansas State University, 1988-1989, Assistant Professor, Architecture Department, non-tenure track.

Clemson University, 1987 Visiting Assistant professor, Planning Department.

Courses Currently Taught:

Lawrence Technological University: 2000-2011

ARC 6002 (M.Arch Thesis) primary Advisor, Ms. Cherie Eng , *A Study in Sustainable Architecture Design of Temporary Housing for Chinese Construction Workers*, 2010-11

ARC6002 (Masters of Urban Design thesis) Secondary Advisor , *A Sustainable Urbanism Methodology for Post Industrial Districts in North American Cities*. 2011-12

ARC5543 Advanced Structures

ARC4543 Structures 4

ARC 2514 Structures 1

ARC4124- Sustainability Studio

ARC 6xx1. Graduate Independent Study

ARC3 117 - Integrated Design Studio 3, Urban Spatial Structures

ARC3117 Integrated Design Studio 3 , Building Systems Component

ARC3 127 - Integrated Design Studio 4. Architecture Design

ARC3 127 Integrated Design Studio 4, Urban Spatial Structures.

North Dakota State University: 1992-2000

ARCH 341 - Structures I

ARCH 571 C Advanced Design III

ARCH 342 C Structures 11

ARCH 572 C Architecture Thesis

ARCH 371 - Architecture Design III

ARCH 561 C Thesis Programming

ARCH 372 C Architecture Design IV

ARCH 396 C City of Chicago Study Tour

Professional Practice Experience:

Historic Preservation Consultant, City of Hammond Indiana, 1987 Prepared an update of the city Historic Preservation plan and worked with the State of Indiana SHPO office, and city planning office. Wilson /Jenkins and Associates: Job Caption, Project Designer, 1984-86. Skidmore, Owings and Merrill, Chicago, IL, Designer/Draftsman. 1981, 1983 Harry Weese and Associates, Summer Designer/Draftsman, 1980. Worked in CTA historic structures station restoration., Newberry Library addition, Church in Snowmass, Colorado, Chicago office. Perkins and Will Associates, Summer Intern 1979. Worked on Children's Memorial Hospital renovation, Bagdad University complex.

Professional Memberships:

American Institute of Architects Detroit/Huron Valley MI, Chapter; 2000 - to present.

Recent Student Awards –Competitions.

2011 ASHRAE Sustainable Integrated Building Design Competition, Adam Murray, and Mark Shovers took 3rd place in the international competition for the design of the Drake Well Museum addition renovation from the Sustainability Studio in Spring 2011, Dan Faoro and Janice Means Advisors.

2010 ASHRAE Sustainable Integrated Building Design Competition, Amy Keyser, Ryland Phelps, Carolyn Lamb, took 1st place in the international competition for a new high-rise hospital in Miami Florida, from the Sustainability Studio in Spring 2010, Dan Faoro and Janice Means Advisors.

2008 ASHRAE Sustainable Architecture Design Competition, Zach Rusu, Eric Gale, and Jason Netzel, took 3rd place in the international competition for a new Recreation Center project in Plymouth, MI, from the Sustainability Studio in Spring 2008, Dan Faoro and Janice Means Advisors.

2007 ASHRAE Sustainable Architecture Design Competition, Grant Helmkamp and Stuart Johnson, took 1st place in the international competition for a new lab research building addition in New York, NY, from the Sustainability Studio in Spring 2007, Dan Faoro and Janice Means Advisors.

2006 ASHRAE Sustainable Architecture Design Competition, Alina Diga and Sushil Patel took 2nd place in the architecture design category of the American Society of Heating, Refrigeration and Air- Conditioning Engineers 2006 competition. for a new dormitory and student facility on The LTU Campus in Southfield, MI, from the Sustainability Studio in Spring 2006, Dan Faoro and Janice Means Advisors.

2005 ASHRAE Sustainable Architecture Design Competition, Scott Poloney and Dan Guith took 1st place in the architecture design category of the American Society of Heating, Refrigeration and Air- Conditioning Engineers 2005 competition. for a new high-rise assisted living/condominium project in Portland, Oregon., from the Sustainability Studio in Spring 2005, Dan Faoro instructor and Janice Means Advisors.

Recent Scholarship/Research Creative Works.

Publications/Exhibitions.

Established and Chaired the Affleck House 70th Anniversary Exhibit UTLC Gallery, 4-15-2011, and Committee; A 15 person college wide committee of faculty, staff, and student staff completed exhibit and Publication of the Exhibit Catalog on the Affleck House website Coordinated the committee work and designed all associated graphics. See Exhibit Catalog (120 pages monograph) at the website https://ltu.edu/affleck_house/invite.asp.

Established and Coordinated the CoAD Master Practitioner Folio Series Publication and Exhibit 8/23-9/21- 2011. (UTLC Gallery) working with The Dean (LeRoy), student library staff, Advancement

Office , and Media services at Lawrence Technological University and the College of Architecture and Design. Prepared an exhibit of photographs, drawings, sketches, digital images, and illustrations of the work included in the College of Architecture and Design's newest publication, The Master Practitioner Folio Series. In our inaugural year we honored three professors; **John Sheoris**, FAIAE **Joseph Savin**, and **Harvey Ferrero**. The work displayed is a collection of projects, art and graphics, which is part of three booklets and an a companion one-hour video- taped interview . Produced by the Dean's office and conceived and coordinated /edited by Daniel Faoro. Booklets in final editing 11-9-2011. See website http://www.ltu.edu/architecture_and_design/masterfolio.asp.

1. Paper Presentation. ASHRAE Conference SOS for the Environment, peer reviewed paper presentation . Title: Building Information Modeling and Sustainable Building Design. March 10, 2009. The work examines the development of building information modeling as an outgrowth of object oriented software. The author will summarize the key relationships to sustainability based metrics to measure a projects environmental responsiveness, and linkage to practice management strategies of integrated project delivery methods. The work will review the development of this software, types of proprietary systems, interoperability characteristics to analysis software and potential future research directives in the field.

1a. ACSA Annual Meeting Portland, OR 3/2009, Peer reviewed paper accepted . Title: Performance -based design in Architectural Studio-based education; Project studies in Sustainable Architecture. Daniel Faoro (Primary Author), Janice Means co-author. **Abstract:** The author presents an overview of a pedagogical approach to studio design education. The work incorporates academic theories of the cognitive aspects of the creative process, strategies and principles to engender sustainable design derived from knowledge attained through research in physical science based metrics of sustainable design in the design studio learning experience. An overview of the course structure, design process and select examples of studio student design projects are provided. The work is intended to stimulate dialog and advance instructional methods that provide opportunities for performance - based assessment methods in architectural education.

1b. Research in education completed as part of University Assessment committee – see service work.

Conference paper Presentation Association of Collegiate Schools of Architecture (ACSA) South East Conference (Oct 11-13, 2007, Washington D.C.) Faculty member completed peer reviewed work and presentation at conference, work published in the proceedings., 10-20-2007.

Abstract Submission. Sustainable Structural Systems. The work provides a review of issues in the design, configuration, and selection of materials and systems as related to sustainable issues for structural systems in architecture. The topics addressed include a review of normative metrics and concepts of measuring sustainability , embodied energy, life cycle assessment, and industry accepted standards, e.g., LEED, Green Globes and other similar conventions. Additional issues addressed include design for material and component reuse involving disassembly, and open building concepts. The author will provide a review of classical topics in system type/efficiency, low material usage, economy in fabrication, and emerging ideas in product shipping and distribution. A review of applications and systems using advanced technology and appropriate technology will be presented.

2a.Paper Presentation, Title: Building Integrated Alternative Energy / Sustainability Based Building Systems. ASHRAE Conference SOS for the Environment, peer reviewed paper presentation 3-11-2008 at LTU.

Abstract: The work examines the development of building envelope systems often considered at the forefront of cost efficient alternative energy applications in building design. Systems selected will focus on reduction of thermal loads, daylighting, provision for water recycling, and active solar applications for electrical power generation, hot air and/or water. They will be examined relative to their intended building applications. The work will classify the systems, examine cost savings projections, review of specific manufactures, building case studies, and current/future research directives in the field of photovoltaic and alternative solar energy components.

2C. Presented a Lecture on Professional ethics in COAD programs at the LTU University Assessment day September, 2007, as part of speakers session.

2 D. **Cranbrook Teachers Conference 2008, 4-15-2008. Research in Architecture Paper Submission Title: Research based directives in Architectural Studio-based education; Project Studies in Sustainable Design. Abstract:** The author presents an overview of a pedagogical approach to studio design education. The work incorporates academic views of the cognitive aspects of the creative process, strategies and principles derived from knowledge attained through research into the physical science based metrics of sustainable design in the design studio learning experience. An overview of the course structure, design process and select examples of studio student design projects are provided. The work is intended to stimulate dialog and advance instructional methods that provide opportunities for knowledge-based assessment methods in architectural education. (STATUS- Denied 6-08)

3.. Invited lecturer Detroit Chapter of the ASHRAE 2007 "SOS for the Environment Conference", Lectured on the *Use of Building Integrated Wind Turbines in the Built Environment*.

4. Author of *Contemporary Movements Regarding the use of Materials in Architecture and the Visual Arts*, Volume 16 issue of DICHOTOMY, the student journal of University of Detroit/Mercy School of Architecture, (Approved March, 2005, publication)

5. American Collegiate Schools of Architecture (ACSA) Central Conference. September 30- Oct. 3rd. 2004, Judson College, Elgin, IL. *Spirit, memory, and ecological place making, literal and abstract manifestations of social and personal identity as a conceptual and formative basis in architecture*. (Work published in conference proceedings)

6. Reentering ; A Community Design Proposal for The Linwood/Lodge District in Detroit, Michigan. Editor, of a short monograph, a compilation of student work and writings from The Detroit Studio, Spring 2002. completed May 30th 2003, 100 pages.

7. The decline and rebirth of the public realm in residential districts in the United States from 1920-2000. Redefining Suburban Studies Conference Hofstra University, March 30-31, 2001.

6. The Big Book of Small House Designs, 75 Award Winning Plans, 2004, Black Dog and Leventhal Press, Competition Project listed on pages 101-104.

Grants Awarded and/or Participating Team member.

Lowes Foundation Grant (s). 10-15-2011, Principal Investigator , Work prepared with project descriptions/budget projects from the LTU Distinguished Alumni Affleck Renovation Committee and reviewed by University Advancement office . Driveway replacement and repair –permeable paving and entry landscape (\$25,000) and Site and landscape restoration project (\$25,000) Status -in Review award decision 1-15-2012.

National Trust for Historic Preservation Grant(s) (2-1-2011). NTHP renovation Grant (\$5,000) Windows and doors replacement study, Cynthia-Woods Mitchell Historic Interiors Grant (\$10,000) to study new lighting/kitchen and damaged finishes for restoration, and the Johanna Favort Fund for Historic Interiors (\$10,000) grant to study electrical and mechanical system upgrades.

1. Michigan Architecture Foundation Evans Grant, \$7,500, June 1, 2010 Principal Investigator For the restoration and replacement of original furniture and original interior artifacts and interiors of the Affleck House and Usonian house designed by Frank Lloyd Wright in 1941..

2 Solar Decathlon Dec. 2005 (\$100,000) U.S. Department of Energy, participating faculty of a university team to fund the design and construction of a prototype passive solar residence. (status accepted)

3. Faculty team member in 10 KW Photovoltaic Array, Part of an Engineering/Architecture interdisciplinary faculty student team to locate and build a facility on the LTU campus . Prepared studies on initial location ideas, and preliminary roof loading location, and assisted in coordination of student team involved in graphic digital display and installation \$60,000 State of Michigan Grant. 2004-2005

4. Highland Park Affordable Housing Study grant support from H.P. Devco Company in affiliation with The Detroit Studio. Amount (\$5,000) 2000.

5. Detroit Studio; in association with Tom Barrie Director. Lodge/Linwood Community design Study , \$1000. 2001

Grant Projects in Progress. The faculty member has approx. 22 varying concepts/ideas under development for building systems, community planning, public infrastructure, affordable housing, and alternative energy, furniture systems, and products.

A. Diatom house; Prototype Passive Solar Residence. 800 sq.ft. The house is based on a botanical single cell plant. They are the basic structure of algae. Algae are considered the most important plants as they provided the first sources of oxygen and hence are the sources of all the earths' plant material. Algae reduce greenhouse gasses by absorbing approx 8% of the global Co2, and are being developed as a potentially plentiful source of bio-fuel. The conceptual cell or module of the house expands the space in proportion to the increase in need for power , natural light, ventilation and rainwater collection. The house incorporates a new Bamboo SIP system and engineered Lumber beams made of bamboo plywood. It has a folded plate roof the retains rainwater, provides natural light and ventilation and has two new BIPV systems one for domestic hot water and the other for electricity. The roof module redefines module design as a sustainable feature as it provides a resource conservation / alternative energy generation building element that expands in proportion to the building size and energy/resource needs.

B.Corrugated Wood Composite Bio- Board floor roofing panel system: New developments in plastic wood composites and bioboards provide new opportunities for construction. The system proposed produces both floor and roofing systems that can be used for type 5 to type 3 construction. The advantages are increased span potential with reduced material usage. The subfloor stiffens the top elements to reduce buckling effects. The increased stiffness and span potential of the system would give it advantages over traditional SIP panels. The system incorporates the new Eco Deck © cardboard Pallets that have a bearing capacity of 55 psf when filled with foam they are proposed as a roof or floor system.

C.SIPS Cement board /BioBoard exterior Wood and Bio-Board Interior Finish.

Exterior panels are Cement board or reclaimed wood products, HardiePlank,© TruWo TerraMai ©, or PaperStone ©.The advantages are increased durability (30 years) with permanent finish and ecological content. The interior panel is a bamboo plywood the edge chords and struts are glu-lam type engineered lumber members made of plyboo bamboo plywood. Interior insulation is a soy based icycene type expansive foam by Arbor Insulation. Electrical and water lines are built into the panel.

D. Bamboo Plywood Engineered lumber Beam. A new derivation of the engineered plywood beam is proposed as an ecological and structurally advanced alternative. The interior panel is a bamboo plywood the edge chords and struts are glu-lam type engineered lumber members made of bamboo plywood. The beams have increased performance due to shape and stiffening and bamboo has ecological benefits of a rapid growth and high shear strength. Electrical/mechanical and water lines have a pass through space built into the web. Two versions are developed.

Recent Service Commitments:

Interim Department Chair 2008- to present.

Principle duties include preparing faculty annual evaluations, scheduling, review of university and college service appointments, mediate and review faculty /student and staff conflicts, review of faculty eligibility for overload pay adjudicating academic dishonesty charges, reviewing student grade appeals, preparing assessment reports for the Department, Prepared the Program review report 2009. Review NAAB related accreditation conditions and augment preparations for future accreditation. Develop and review course transfer guides, and articulation agreements with 2-3 yr. colleges. Review data related to faculty, student performance. Represent the Department on internal and external recruitment events.

Faculty Development

Developed a Faculty Evaluation Rubric to establish clear expectations of the purpose and value of the review and performance outcomes for all faculty responsibility areas and correlate them to the levels of recognition and achievement , Excellent- Needs Improvement, 7-13-2010, In review and development.

Program Review/Assessment/Accreditation

Architecture Dept. (CoAD) Student Indebtedness study 2005-2009, 10-8-2009.

Study initiated by the Chair to review trends in student dept relative to starting salaries, current data and trends pointed to increasing debt relative to decreasing or flat intern starting salaries. A significant decrease in the gap between income and salaries since 2004 was evident to 2009, 41.5% -6.8% such that by 2010 debt would exceed starting salary. In addition BS. Arch ave. debt. is now above the national debt levels for the first time.

LTU Academic Program Planning and Review Report, (1-6-2010) After the passing of Dr. North, Assistant Dean I prepared the report and passed the document to the Dean (LeRoy) for final review, editing, and submission.

Reviewed existing LTU Transfer guides for six US and Canadian 2-3 year colleges and prepared a transfer guide update review process and a new transfer course evaluation form to insure compliance with NAAB requirements for course review. 4-30-2010. Status, in-progress programs reporting back over last six months.

Initiated and prepared a review of outstanding Articulation agreements for St. Clair University 2010, and OCC, 2009/2010, Lansing Comm. College and Grand Rapids Comm. College. Prepared and delivered a memo to request course documentation of all Architecture classes transferred to LTU to be compliant with NAAB requirements for course review.

Developed average GPA review process from data collected by LTU office of Institutional Research comparing and documenting GPA distribution and statistical variance between sections to guide faculty in coordination efforts to review grading disparities and monitor against possible grade inflation

Reviewed College Adjunct faculty evaluation forms and review coordination reports on adjunct faculty performance. 2-10-2010.

Student Performance.

Developed a mandatory Structures 1 (ARC2514) pre-class requirement with the AAC based on low GPA's for prereq. Classes and student history of repeating the class, and will monitor and assess outcomes this term based on class performance of those students this Fall 2011.

Based on feedback I prepared new guidelines and procedures for Independent and Directed study options. 3-10-2010.

Strategic Planning, Outreach and Recruitment

Attend Career on campus recruitment events Graduate Open House, Deans Bruch, Open House Blue Devil Showcase and prepare comments on the program, meet students for tours and meet parents/students for Q & A sessions. Hold Exploration day sessions with a area HS Students and prepare the Structural competition. 2009-2011.

Attended Chicago Architecture and Design Day recruitment event, 10-20-2010 at The IIT Campus to meet 35 prospective students, attended by 250 individuals from the USA.

CoAD Marketing Plan reviewed and commented on proposed plan by Dean Veryser, 11/11/2009

Prepared and Reviewed Programs of two Canadian schools, Humber and Conestoga Colleges for future Articulation agreements 9-10-2010. Status- in development with Dean and Admissions.

Grand Rapids Community College Articulation. With the Admissions office and the Dean, and GRCC administrators prepared and documented Transfer credit and Summary record guide of for future articulation 10-25-2010.

Lake Michigan College Articulation Agreements Prepared and met with LMC administrators and Admissions, and the dean to review and prepare future articulation agreements, 08-28-2009.

College of Architecture and Design Service on the Faculty Council.

Faculty Committee, 2000- to present.

Architecture Dept. Curriculum committee. Provided input on structures area of the program
Ethics Assessment Sub-Committee 2009- to present, prepared input into assessment methods, developed three sample ethics exam based on DIT exam format.

REVIT Computer integration Committee 2009-to present worked to augment development of new courses to adapt and modify the EM sequence.

University Service:

International Students Committee, Established to address issues with new international student body, 8-20 2011 – to present

Faculty Handbook Committee, 2009- to present, provided extensive review, recommendations, and comments on multiple sections of the document.

Graduate Council representative for CoAD, 2002-2006..

Research and grant reporting task force. 2006-07. Provided input on forms used to document and track grants within the university.

Assessment Committee, representative for CoAD. 2004-2007.

Interviews/ Popular Press Articles.

Interviewed by Nicholas Jackson in the 10-27-2011, *Atlantic Monthly* "A Conversation With Daniel L. Faoro, Professor of Architecture". <http://www.theatlantic.com/life/archive/2011/10/a-conversation-with-daniel-l-faoro-professor-of-architecture/247200/>

Department Chair and Faculty Development:

Making Group Work Work, Josey Bass Webinar, 3:00pm-4:30pm, Room M-217, 11-15-2011. Session compromised by web linkage problems.

Keys to Effective and Fair Faculty Evaluation, 11:30am-1:00pm, Room M-217
Josey Bass webinar, 11-17-2011, Session compromised by audio problems in broad cast.

Managing Time and Stress, Chris Hansen, Ph.D, Josey-Bass Webinar, 8-26-11 at Lawrence tech.

Effective Communication and conflict management techniques, Josey-Bass Webinar, 9-16-2011 at Lawrence Tech.

The Connection Between Learning and Teaching Styles: How to Create an Engaging Classroom Atmosphere, Josey Bass Webinar 9-22-2011, Lawrence Tech.

Academic Chairpersons Conference 2/10/2010. Participated in sessions on faculty evaluation, legal issues in education, assessment proceedings. Partnerships , essential chair duties, and special session
Departments that Work: Building and Sustaining Cultures of Excellence in Academic Programs
Jon F. Wergin, ISBN: 978-1-882982-57-8 Prof. Wergin has offered to include the Dept. of Architecture at LTU in their next survey and assessment of departmental effectiveness based on a continuation of his prior work.

Attended American Collegiate Schools of Architecture Administrators Conference in Savanna, GE, 11/2008. Attended new chairs and administrators session.

Attended Cranbrook Teachers Conference 7/2008, Participated in workshops and sessions on architecture and research, proceedings scheduled to be published at later date.

Attended Cranbrook Teachers Conference, 2007, participated in workshops cited in published proceeding for integrated Practice in the 21st Century, <https://www.acsa-arch.org/adaview.aspx?pageid=276>

Attended ASHRAE 2007 Jan.21, Winter meeting in New York City, attended lectures and Cool tools Seminar.

Attended LTU ArchiLectures, 2000-2011 and completed continuing education credits to maintain Architecture license.

Attended Solar Decathlon in October -Washington DC., assisted team in options to make final alterations to systems and components before judging. Teaching / Service / Professional and Research Goals