

Edmond P. Saliklis, Ph.D., P.E.
Department of Architectural Engineering
California Polytechnic State University
Work phone: 805 756 7641
Email: esalikli@calpoly.edu

EDUCATIONAL BACKGROUND

<u>Degree</u>	<u>Year</u>	<u>University</u>	<u>Field</u>
B.S.	1984	University of Illinois-Chicago	Civil Engineering
M.S.	1988	Syracuse University	Civil Engineering
Ph.D.	1992	University of Wisconsin-Madison	Civil Engineering

LICENSURE

Professional Engineer, (Civil Engineering), California.

EMPLOYMENT HISTORY

<u>Title</u>	<u>Organization</u>	<u>Years</u>
Assistant Professor	California Polytechnic State University	9/05 to present
Assistant Professor	Lafayette College	8/97 to 8/05
Adjunct Professor	Univ. of Wisconsin-Madison	9/96 to 6/97
Design Engineer	FLAD and Assoc. Madison, WI	9/96 to 6/97
Research Engineer	USDA Forest Products Lab	9/94 to 9/96
Design Engineer	Chicago Bridge & Iron, Plainfield, IL	7/92 to 9/94

SCHOLARSHIP

Scholarship – Secured Funding

“An innovative method of teaching structural art: Reinventing a venerable vaulting tradition”, Principal Investigator E. Saliklis, amount funded by the Office of Research and Graduate Programs (support for faculty efforts to obtain extramural funding) at Cal Poly: \$11,592, March, 2007.

“An innovative method of teaching structural art: Reinventing a venerable vaulting tradition”, Principal Investigator E. Saliklis, amount funded by the Center for Teaching and Learning Grant Program at Cal Poly: \$5,825, December, 2006.

“Proposal to fabricate “Guastavino” structural tiles from recycled plastic and agricultural fibers”, Principal Investigator E. Saliklis, amount funded by California State Faculty Support Grant Committee: \$4,500, February 2006.

“Proposal to fabricate “Guastavino” structural tiles from recycled plastic and agricultural fibers”, Principal Investigator E. Saliklis, was funded by the CAED Seed Grant Program for \$7,500 in the spring of 2006

“Acquisition of Instrumentation for Integrated Structural Testing and Digital Image Correlation Laboratory”, co-PI., amount funded by National Science Foundation: \$243,526, award no. CMS-0319846, August 2003.

Scholarship - Theses

M.S. Thesis: " An Experimental and Analytical Investigation of Base Isolation of High Rise Buildings," advisor, Dr. P. Brennan.

Ph.D. Dissertation: "A Nonlinear Constitutive Model of Paperboard," advisor, Dr. S. Cramer.

Scholarship - Publications

- Saliklis, E. "Four Research Projects, One 'Green' Theme", (2008) *proceedings of the ASEE National Conference*, Pittsburgh, PA.
- Saliklis, E. "Arch Building for Kids: What Did We Learn? What Did They Learn", (2008) *proceedings of the ASEE National Conference*, Pittsburgh, PA. Nominated as "Best Paper".
- Saliklis, E. and White, K. "Testing, Modeling and Constructing Wood-Plastic Composite Catalan Vaults", (2008) *Extended Abstract published in the proceedings of the 6th International Conference on Computation of Shell and Spatial Structures*, Ithaca, NY.
- Saliklis, E., Billington, D. and Bauer, M. "Scale Simplicity and Surprise: Evaluating Structural Form", (2008) ASCE Journal of Architectural Engineering, vol. 14, no. 1, pp. 25-29.
- Saliklis, E. "Evaluating structural form: Is it sculpture, architecture, or structure?" (2007), *proceedings of the ASEE National Conference*, Honolulu, HI.
- Saliklis, E., Billington, D. and Carmalt, A. "The Refinement of an Idea: Tedesko's Philadelphia Skating Arena" (2007) ASCE Journal of Architectural Engineering. vol. 13, no. 2, pp.72-77.
- Saliklis, E. "Putting a Fence Around Undergraduate Research", *proceedings of the ASEE National Conference*, Chicago, (2006) Awarded "Best Presentation" in the Architectural Engineering Division.
- Saliklis, E., Billington, D. and Tregger, N. "Buckling Studies of the Trojan Tower" (2004). *Proceedings of the Fifth International Symposium on Natural Draught Cooling Towers*, May 20-22, Istanbul, Turkey, pp. 115-120.
- Saliklis, E., Urbanik, T. and Tokyay, B. "Method for Modeling Cellulosic Orthotropic Nonlinear Materials" (2003), Journal of Pulp and Paper Science vol.29, no.12, pp.407-411.
- Urbanik, T. and Saliklis, E. "Finite Element Corroboration of Buckling Phenomena Observed in Corrugated Boxes", Wood and Fiber Science (2003) vol. 35, no. 3, pp. 322-333.
- Saliklis, E., Kurtz, S. and Furnbach, S. "Finite Element Modeling of Guastavino Tiled Arches", (2003) *Proceedings of the Eighth International Conference on Structural Studies, Repairs and Maintenance of Heritage Architecture*, Halkidiki, Greece, pp. 257-266.
- Saliklis, E. and Billington D. "The Hershey Arena: Anton Tedesko's Pioneering Form", (2003) ASCE Journal of Structural Engineering vol. 129, no. 3, pp. 278-285.
- S. S. Moor, E.P. Saliklis, S. R. Hummel and Y. Yu, (2003) "A Press RO System: An Interdisciplinary Reverse Osmosis Project for First Year Engineering Students," Chemical Engineering Education, Vol. 37, No. 1, p.38-44.
- Moor, S., Saliklis, E. and Hummel, S. (2001) "A Press RO Filter: An Interdisciplinary Project for First Year Engineering Students", *Membranes in the Chemical Engineering Curriculum, 2001 AIChE Annual Meeting*, Reno, Nevada, Nov. 4-9.
- Saliklis, E.P. and Tokyay, B. (2000) "Empirical Prediction of Shear Modulus and Young's Modulus of Plywood Panels", *Proceedings of the 14th ASCE Engineering Mechanics Division Conference*, Austin, Texas May 21-24.
- Saliklis, E.P. and Mussen, A.L. (2000) "Investigating the Buckling Behavior of OSB Panels", Wood and Fiber Science vol. 33. pp. 259-268.
- Saliklis, E.P. and Falk, R.H. (2000) "Correlating Off-Axis Tension Tests to the Shear Modulus of Wood Based Panels", ASCE Journal of Structural Engineering vol. 126, no.5, pp. 621-625.
- Saliklis, E.P. (1999) "Experimentally Obtaining Stiffnesses and Buckling Loads of Oriented Strand Board Panels", *Proceedings of the 13th ASCE Engineering Mechanics Division Conference*, Baltimore, MD June 13-17.
- Saliklis, E.P., Cramer, S.C. and Hermanson, J.H., (1998) "Measuring the Triaxial Load-Deformation Response of Orthotropic Materials Subjected to Large and Small Strain Regimes", ASTM Journal of Testing and Evaluation, Vol. 26, No. 5, pp. 444-454.
- Saliklis, E. P. and Kuskowski, S.K. (1998) "Constitutive Modeling of Paper Accounting for Rate of Load and Transient Relative Humidity Effects", TAPPI Journal, Vol. 81, No. 2., pp. 181-188.
- Stahl, D.C. and Saliklis, E.P. (1997) "A Nonhomogeneous Network Model for Paper", *Proceedings of Mechanics of Cellulosic Materials Conference*, AMD-Vol. 221, MD-Vol.77, American Society of Mechanical Engineers, Evanston, IL., pp. 19-25.
- Saliklis, E.P., and Rowlands, R.E., (1997) "A Novel Radial Compression Testing Device for Tubes", Tappi Journal, Vol. 80, No. 1, pp. 234-237.

PROFESSIONAL SOCIETIES

ASCE, American Society of Civil Engineers (Member)

ASEE, American Society for Engineering Education (Member)

PATENTS

“Apparatus and Method for Testing Tubular Products” Rowland, R.E., Saliklis, E.P., Gerhardt, T.D. and Wise, J., (1994)

U.S. Patent No. 5,339,693

European Patent No. 93309646.3 (designating France, Germany, Great Britain and Italy)

Canadian Patent No. 2112169

Japanese Patent No. 309,416/93

RECENT PROFESSIONAL SERVICE

Moderator:

ASEE Annual Conference, Architectural Engineering Division

Reviewer:

ASCE Journal of Architectural Engineering

Invited Lectures

Princeton University Civil Engineering Seminar “Modeling and Constructing Green “Guastavino” Vaults, February 2008, Princeton, NJ.

Ball State University Art Museum “Structural Art”, December 2004, Muncie, IN.

Clarkson University, “Plastic Pallets Reinforced with Agricultural Fibers”, May 2002, Potsdam, NY.

ASCE Central PA Section March Meeting, “The Hershey Ice Arena”, March 2002, Harrisburg, PA.

Hershey Museum, “The Hershey Ice Arena”, August, 2001, Hershey, PA.