


Technical Journal Papers:


J38. A. S. Mosallam (2009). “Structural Upgrade of Reinforced Concrete Column-Tie Beam Assembly using FRP Composites,” American Concrete Institute, SP-258, pp. 57-68.


SUBMITTED Journal Articles, Peer-Reviewed


Selected Professional Magazine Articles:


Selected Conference Proceedings Papers:


The image contains a list of publications by A.S. Mosallam from 1994 to 1996. The publications cover various topics related to composites engineering, including:

- "An Iterative Procedure for Predicting the Flexural Behavior of R/C Beams with Composites Reinforcement," 1st International Conference for Composites Engineering (ICCE/1), New Orleans, Louisiana, August.
- "Performance of Advanced Composite Retrofitting System During the Northridge Earthquake," Proceedings, The First International Conference for Composites Engineering (ICCE/1), New Orleans, Louisiana, August. (80% Co-author)
- "Design Procedure for Predicting Creep and Recovery of Pultruded Composites" Proceedings, 50th Annual Conference, Composites Institute, January 30-February 1, Paper No. 6-c. (Received the Conference Best Design Paper Award) (70% Co-author)
- "Seismic Performance of Pultruded Frame Structures," Proceedings of Composites'95, Composites Fabricators Association (CFA), October 18-21, Anaheim, California. (An Invited Lecture)
- "Creep Behavior of Polymer Composites Subjected to a Fire Environment" the Third International Conference on Composites Engineering (ICCE/3), New Orleans, Louisiana, July 21-26. (80% Co-author)


Selected Technical Reports:


SELECTED PRESENTATIONS:


P2. California Department of Transportation (Caltrans), Maintenance Division, Development of Interim & Permanent Repair of Kings Stormwater FRP Composite Deck, Diamond Bar, California May 14, 2008.


P34. "Applications of Advanced Composites for Repair of R/C Structures," The Fifth International Colloquium on Concrete in Developing Countries, Cairo, Egypt, January 2, 1994.


MEDIA INTERVIEWS

* Interviewed by KDOC TV Channel on the Army Smart Bridge (February 2008)
* Interviewed by OC Register Newspaper on the Pilot project dealing with the use of recycled used tires for protection of John Wayne Airport TSA facility, Article title: "Old tires find new role in protecting airport" (February 11, 2008): http://www.ocregister.com/article/tires-parking-room-1977849-baggage-garage
* Interviewed by LA Times on August 3rd on the Collapse of Minnesota Steel Bridge (2007),
* Cited in an article titled “Composites’ future in structural applications, K Trade Fair Website: http://www0.k-online.de/cipp/md_k/custom/pub/content.lang:2/oid:7491/"
* Cited in an article at the E-Composites, website regarding the B. Goldsworthy Award nomination-- http://www.e-composites.com/frontend/newspage.aspx?sno=3853
* Cited in Engineering News-Records (ENR) Cover Story article titled: The 21st Century Interstate Features a New Material, March 13, 2006 (enr.com) — A portion of this article appeared also in ARI News,
* Cited on the International Code Council E-news website on a news item dealing with the joint development of a ICC/HBRC national training and certification program,

Cited in NETCOMPOSITES Electronic Newsletter news item stating that the newly UCI developed composites for construction course is the first course to be offered in USA university, http://www.netcomposites.com/cnews.asp?23775 (2007)

Interviewed by National Geography on a Series dealing with Anti-Blast: Polymeric Systems for Buildings & Bridges (November 2005),

Cited in NGCC Newsletter published by Network Group for Composites in Construction,

Cited at COBERA and Composites International Websites,

Cited at Purdue University Emerging Construction Technologies Website.


Interviewed by KFI 640 Radio Station, on the state of California Bridges, March 2000.


Interviewed by Dansk Teknisk Tidsskrift Magazine (Denmark), December 1999


Interviewed by the CNN Science and Technology Program team in Washington DC on January 20, 1994 as an Expert to illustrate new technology for seismic repair of highway bridges and buildings.

Appeared in Channel 8 News, and ABC, January 18, 1993, as a Structural Expert on Structural repair and advanced Materials during the Northridge Earthquake.


COMPUTER AND LABORATORY SKILLS

- Wireless sensors and advanced sensing technologies such as optical fibers, Zigbee, piezoelectric sensors and others.
- Computer oriented skills including familiarity with GENOA, NISA II, ANSYS, NASTRAN, FORTRAN, and several computer-programming languages.
- Developed several structural computer codes, including:
  i) Structural design and structural layout of composite steel/concrete floor system,
  ii) Viscoelastic analysis of composites frame structures including both shear deformation and connection flexibility,
  iii) Failure analysis of frame structures with semi-rigid joints, as well as the predictions of buckling load for PFRP thin-walled elements,
  iv) Nonlinear analysis of concrete structural elements reinforced with laminated composites.
  v) Design and Failure Analysis of Composite Single and Multi-bolted Joints (included as a part of the ASCE Design Manual (2010)).
- Capable of using many types of laboratory equipment, field instrumentations, photoelastic equipment, fiber optical sensors, shape memory alloys, and other health monitoring systems, as well as data acquisition devices and related software programs.