



Arab American Association of Engineers & Architects

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ARAB AMERICAN ASSOCIATION OF ENGINEERS AND ARCHITECTS (AAAEA) ASCE ILLINOIS SECTION - STRUCTURAL GROUP JOINT DINNER MEETING

MOVABLE BRIDGES - DESIGN AND INSPECTION

Jamal Grainawi, S.E., P.E.

**Major Complex Bridge Service Center, Parsons Brinckerhoff,
Chicago, Illinois**

This presentation will give an introduction to movable bridge design and inspection. A brief overview of movable bridge type will be given, followed by an introduction to the fundamental of bascule bridge design and inspection. The presentation will cover the following:

- Type of Movable Bridges
- Type of Bascule Bridges
- Unique Features of Bascule Bridges
- Structural Design of Bascule Bridges
- Pier Protection Cell & Fender System
- Inspection of Bascule Bridges

Jamal Grainawi, S.E., P.E. is Chief Structural Engineer and Assistant Vice President with Parsons Brinckerhoff in Chicago. He is Certified Professional Associate and Senior Project Manager and he has over 23 years of experience in all aspects of bridge engineering. He has earned recognition in PB in the area of movable bridges and provides services and expertise to projects throughout PB where complex or major bridges are involved. Before joining PB, Jamal worked as a project engineer for the Massachusetts Highway Department in the Bridge Section in Boston.

Mr. Grainawi has received his B.S and his M.S. Degrees in Civil Engineering from the Illinois Institute of Technology, in Chicago. He is a licensed professional engineer in several states, and a licensed structural engineer in Illinois.

Date: Wednesday, July 26, 2006

Time: 5:30 p.m. Social
6:00 p.m. Dinner
7:00 p.m. Presentation

Place: University of Illinois at Chicago (UIC)
ERF "Engineering Research Facilities"
842 West Taylor Room # 1047, Chicago UIC

Cost: \$15 / \$5 Students – RSVP before COB Monday July 24th, 2006
\$20.00 – at door or RSVP after July 24th, 2006

RSVP: Via e-mail or phone by Monday, July 24th, 2006

ASCE: Zaida Morillo, morillo@pbworld.com or (312) 803-6523

AAAEA: Dr. Moussa Issa, moussa.issa@hbmengineering.com or (708) 236-0900