

# **NIST Standards in Trade Workshop on Standards and Codes for the Iraqi Construction Sector**

**July 17 – 21, 2006**

**National Institute of Standards and Technology  
Gaithersburg, Maryland**

<b>Monday, July 17</b>	<b>Administration Building, Lecture Room B</b>
8:45 a.m.	NIST Bus pick up from Hotel
9:00 – 9:15 a.m.	Daily Orientation
9:15 – 9:30 a.m.	<u>Welcome</u>  Dr. Belinda Collins Director, Technology Services National Institute of Standards and Technology (NIST)  Dr. Hratch Semerjian Chief Scientist, Director’s Office National Institute of Standards and Technology (NIST)  Istabraq Ibrahim Al-Shouk Deputy Minister Iraq Ministry of Construction and Housing
9:30 – 9:45 a.m.	<u>Participant Introductions</u>
9:45 – 10:15 a.m.	<u>NIST Overview</u> Dr. Susan F. Heller-Zeisler, International Affairs Officer Office of International and Academic Affairs National Institute of Standards and Technology (NIST)
10:15 – 10:20 a.m.	<u>Standards and Iraq</u> Mary Saunders, Chief Standards Services Division National Institute of Standards and Technology (NIST)

- 10:20 – 10:45 a.m.    Construction Sector Overview  
David A. Harris, FAIA, President  
National Institute of Building Sciences
- 10:45 – 11:00 a.m.    Break
- 11:00 – 11:30 a.m.    US Perspectives and Trends in the Standardization, Code  
Development and Conformity Assessment  
Casey C. Grant, P.E., Assistant Chief Engineer  
National Fire Protection Association (NFPA)
- 11:30 – 12:00 p.m.    Iraqi Perspective on the state of the construction sector in Iraq, and  
challenges facing this sector  
Jabbar Hamza L. AL-Rikabi  
D.G. of National Center for Engineering Consultancy  
MOCH
- 12:00 – 1:30 p.m.    Group Photo, Lunch
- 1:30 – 2:00 p.m.    Site Visit Overview  
Phil Waclawski, Permitting Services Manager  
Department of Permitting Services
- 2:00 – 4:30 p.m.    Site Visit  
5400 Wisconsin Avenue  
Chevy Chase, Maryland



### Construction Codes

- 8:15 a.m. NIST Bus pick up from Hotel
- 8:30 – 8:45 a.m. Daily Orientation
- 8:45 a.m. Panel on general issues in development and implementation of construction codes
- 8:45 – 9:10 a.m. Process of Code Development  
Allen Inlow, Senior Director of IAPMO Business and Product Development  
International Association of Plumbing and Mechanical Officials (IAPMO)
- 9:10 – 9:35 a.m. Code Administration and Enforcement  
Phil Waclawski, Permitting Services Manager  
Department of Permitting Services
- 9:35 – 10:00 a.m. Iraqi Perspective  
Dr. Khalil I. Ali AL-ARAB  
Dean, Faculty of Architecture  
University of Technology
- 10:00 – 10:30 a.m. Discussions and Q&A

10:30 – 11:00 a.m. Break

11:00 a.m. Panel addressing technical issues in development and implementation of construction codes

11:00 – 11:30 a.m. Building Codes  
Robert Solomon, Assistant Vice President  
National Fire Protection Association (NFPA)

Paul Myers, President  
ICC Foundation

- 11:30 – 12:00 p.m. Plumbing, Mechanical and Electrical Systems  
Jay Peters, Senior Director of Codes and Education  
International Association of Plumbing and Mechanical Officials (IAPMO)
- Jeffrey Sargent, Senior Electrical Specialist  
National Fire Protection Association (NFPA)
- 12:00 – 12:15 p.m. Discussions and Q&A
- 12:15 – 1:15 p.m. Lunch
- 1:15 p.m. Continuation of Technical Panel presentations and discussion
- 1:15 – 1:45 p.m. Natural Hazards  
Dr. John Gross, Guest Researcher  
Materials and Construction Research Division  
National Institute of Standards and Technology (NIST)
- 1:45 p.m. Iraqi Perspectives on technical issues in development and implementation of construction codes
- 1:45 – 1:55 p.m. Building Codes and Natural Hazards:  
Namir K. Said Al-Saoudi  
Dean of Building and Construction Engineering Department  
University of Technology
- Ihsan A. Saib AL-Shaarbaf  
Assisting Professor/Civil Engineering Department  
Al-Nahrain University
- 1:55 – 2:00 p.m. Plumbing Codes:  
Nidaa K. Hasan  
Expert, Head of Engineering Services Department  
National Center for Engineering Consultancy
- 2:00 – 2:05 p.m. Mechanical Codes:  
Samira A. Ali Salih  
Expert, Head of Mechanical Department  
National Center for Engineering Consultancy
- 2:05 – 2:15 p.m. Electrical Codes:  
Hussain J. Sadiq  
Deputy Dean/Assistant Professor  
University of Technology, Electrical Engineering Department

- 2:15 – 2:30 p.m.      Discussions and Q&A
- 2:30 – 2:45 p.m.      Break
- 2:45 – 3:00 p.m.      NIST Site Visit Overview  
Dr. Nicholas J. Carino, Guest Researcher  
National Institute of Standards and Technology (NIST)
- 3:00 – 5:00 p.m.      Site Visit to NIST Labs

## Standards

- 8:00 a.m. NIST Bus pick up from Hotel
- 8:15 – 8:30 a.m. Daily Orientation
- 8:30 – 9:00 a.m. Overview of the US standards system and approaches to standardization  
Jane Schweiker, Senior Advisor to the President/CEO  
American National Standards Institute (ANSI)
- 9:00 – 9:30 a.m. Overview of the Iraqi standards system  
Saad Abdul Wahab Abdul Gadir  
Head of Construction Standards Section  
Central Organization for Standardization and Quality Control
- 9:30 – 10:00 a.m. Discussions and Q&A
- 10:00 – 10:15 a.m. Break
- 10:15 – 10:40 a.m. Standards for Construction Materials and Methods of Construction  
David Hattis, Consultant and ASTM Committee E06 on  
Performance of Buildings  
Building Technology Incorporated
- 10:40 – 11:05 a.m. Standards for Fire Protection  
Jim Beyreis, Vice President  
Technical Training Global Fire and Security  
Underwriters Laboratories Inc. (UL)
- 11:05 – 11:30 a.m. Standards for Disaster Management  
Robert Solomon, Assistant Vice President  
National Fire Protection Association (NFPA)
- 11:30 a.m. Iraqi Perspective
- 11:30 – 11:40 a.m. Standards for Disaster  
Mwafak A. Ali  
Fire Department Manager  
Iraqi Civil Defense

11:40 – 11:55 a.m. Standards for Fire protection  
Saad Abdul Wahab Abdul Gadir  
Head of Construction Standards Section  
Central Organization for Standardization and Quality Control

11:55 – 12:15 p.m. Discussions and Q&A

12:15 - 5:00 p.m. Lunch and Site Visit

Montgomery County Public Services Training Academy (PSTA)

Monte L. Fitch

Assistant Fire & Rescue Chief, ret.

Montgomery County Division of Fire & Rescue Services

Captain Rick Barnes

Montgomery County Department of Fire and Rescue

Assistant Chief R. Michael Clemens

Montgomery County Department of Fire and Rescue

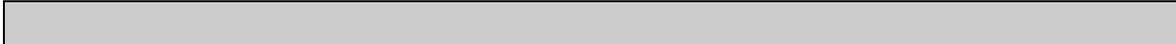
Captain Monte D. Fitch

Montgomery County Fire & Rescue Training Academy's

Rescue Technician Program

Master Firefighter Wayne Koontz

Montgomery County Department of Fire and Rescue



### Standards (continued) & Conformity Assessment

8:15 a.m.	NIST Bus pick up from Hotel
8:30 - 8:45 a.m.	Daily Orientation
8:45 – 9:05 a.m.	<u>Mechanical/Plumbing/Electrical (MPE) System Standards</u> Charles Gross, Director of Product Certification IAPMO
9:05 – 9:25 a.m.	<u>Iraqi Perspective</u> Hussain Y. Mahmood Assistant Dean, College of Engineering University of Baghdad
9:25 – 9:45 a.m.	Discussions and Q&A
9:45 – 10:15 a.m.	<u>Elements of conformity assessment in the construction sector</u> Richard Kuchnicki, Federal Program Manager International Code Council (ICC)
10:15 – 10:45 a.m.	Break
10:45 – 11:15 a.m.	<u>Conformity Assessment Supporting Regulation</u> Howard Hopper, North American Program Coordinator for the Regulatory Services Underwriters Laboratories Inc. (UL)
11:15 – 11:45 a.m.	<u>Iraqi Perspective</u> Souad A. Rashid Manager of Metrology Department Central Organization for Standardization and Quality Control
11:45 – 12:15 p.m.	Discussions and Q&A
12:15 – 1:15 p.m.	Lunch
1:15 – 1:45 p.m.	<u>Product Testing and Certification</u> Ohannes Dembekjian, Director of Continuous Compliance IAPMO World Headquarters

- 1:45 – 2:15 p.m.     Iraqi Perspective  
Laith Saliem Fleyeh  
Director Manager  
National Center for Constructional Labs and Researches (NCCLR)
- 2:15 – 2:45 p.m.     Discussions and Q&A
- 2:45 – 3:15 p.m.     Break
- 3:15 – 3:45 p.m.     Accreditation Systems and Personnel Certification  
Accreditation Programs (Products, Systems and  
Personnel Certifiers)  
Ms. Patricia A. Gleason  
President  
Safety Equipment Institute
- 3:45 – 4:15 p.m.     Accreditation Systems for Building Departments and  
Certification of Personnel  
David S. Nelson, Ph.D., P.E.  
Vice President, Certification and Testing  
International Code Council (ICC)
- 4:15 – 4:45 p.m.     Discussions and Q&A
- 6:15 p.m.             NIST Bus pick up from Hotel
- 6:30 p.m.             **Hosted Dinner Sponsored by International Association of**  
**Plumbing and Mechanical Officials (IAPMO)**
- O'Donnell's Restaurant**



**Implementation, Challenges and Emerging Trends**

- 8:15 a.m. NIST Bus pick up from Hotel
- 8:30 – 8:45 a.m. Daily Orientation
- 8:45 a.m. Emerging Trends in the Construction Sector
- 8:45 – 9:05 a.m. Environmental Issues and Energy Conservation  
Barbara Lippiatt, Economist  
Building and Fire Research Laboratory Office  
National Institute of Standards and Technology (NIST)
- 9:05 – 9:25 a.m. Green Building Design and High Performance Design  
Dr. William E. Kelly, Professor of Civil Engineering  
The Catholic University of America
- 9:25 – 9:45 a.m. Quality Assurance and Building Commissioning  
Derek McArthur, Commissioning Specialist  
Jacobs Engineering
- 9:45 – 10:05 a.m. Glazing Products for Safety and Security Performance  
Julia Schimmelpenning, Architectural Technical  
Applications Manager  
Solutia, Inc.
- 10:05 – 10:30 a.m. Discussions and Q & A
- 10:30 – 11:00 a.m. Break
- 11:00 – 11:30 a.m. Delegation Meetings

- 11:30 – 12:15 p.m. Joint US - Iraqi Interactive Session  
Dr. Carmiña Londoño  
Group Leader, Global Standards and Information Group  
National Institute of Standards and Technology (NIST)
- Objectives: a) Answer remaining questions; b) discuss topics of interest to the delegates; c) understand obstacles to US standards and codes adoption
- 12:15 – 12:45 p.m. Final Forum – Next Steps and Future Collaboration  
Dr. Carmiña Londoño  
Group Leader, Global Standards and Information Group  
National Institute of Standards and Technology (NIST)
- David Karmol  
Iraq Standards Advisor  
National Institute of Standards and Technology (NIST)
- 12:45 – 1:00 p.m. Closing Remarks