

# Conference Program

**Tuesday 6<sup>th</sup> November 2007**

|                      |                         |                       |
|----------------------|-------------------------|-----------------------|
| <b>8 :00 - 10.00</b> | <b>Registration</b>     | <b>Front Desk</b>     |
| <b>10.00 -11 :00</b> | <b>Opening Ceremony</b> | <b>Omkalthom Hall</b> |

**Coffee Break (11:00 – 11:30)**

| <b>Keynote Lectures (1 &amp; 2)</b> |               |                           |                     |
|-------------------------------------|---------------|---------------------------|---------------------|
| K -1                                | 11.30 – 12.00 | Prof. Dr. Pedro Espina    | BIPM                |
| K -2                                | 12.00 – 12.30 | Prof. Dr. Michael Kuhne   | EURAMET-Chairman    |
| <b>Chairpersons</b>                 |               | Prof. Dr. Mohamed El-Fiki | NIS - Egypt         |
|                                     |               | Mr. Khalid Al Harby       | SASO - Saudi Arabia |

**Session 1 (12:30 – 14:00)**

| <b>No.</b> | <b>Time</b>   | <b>Calibration Scope &amp; Confidence in Measurements Results</b>   |
|------------|---------------|---|
| S1-1       | 12:30 – 12:50 | Uncertainty & Proficiency Testing Program of Measurements of Analysis Carbon, Silicon, Manganese & Chrome in alloy steel.<br><b>Abd-Elkader El-Maghrabi (Arco-Steel co)</b> |
| S1-2       | 12:50 – 13:05 | Accurate Measurements of Fine Displacements by Analysis of Speckle Patterns<br>M. Nicklawy, M. Bahrawi, A. F. Hassan and <b>N. Farid (NIS)</b>                              |
| S1-3       | 13:05 – 13:20 | Investigating The Laser Sources Used in Displacement Measurements<br>M. A. Amer and <b>H. Hussein (NIS)</b>   |
| S1-4       | 13:20 – 13:35 | Technical Overview on the Ac / Dc Thermal transfers Standards<br><b>M.M. Halawa (NIS)</b>   |
| S1-5       | 13:35 – 13:55 | Area of Confidence in the Calibration and Measurement Results<br><b>Nadia Soliman (EOS)</b>   |

**Lunch (14:00 – 15:00)**

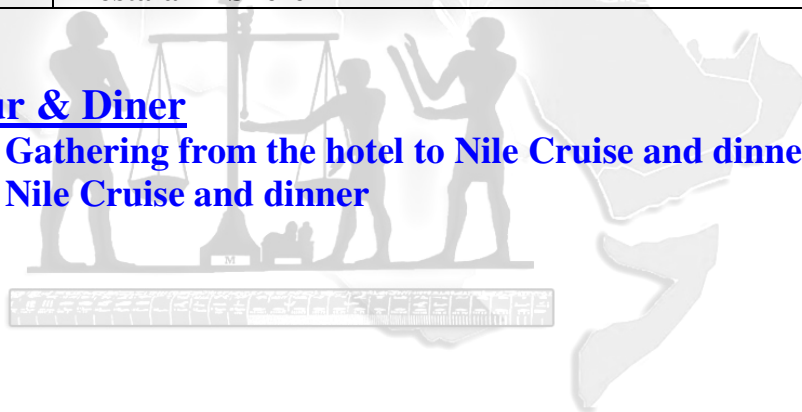
| <b>Keynote Lectures (3)</b> |               |                       |                            |
|-----------------------------|---------------|-----------------------|----------------------------|
| K -3                        | 15.00 – 15.30 | Prof. Dr. Wynand Louw | NAMISA-South Africa        |
| <b>Chairpersons</b>         |               | Prof. Dr. M. M. Ammar | NIS -Egypt                 |
|                             |               | Eng. Omar Abu Washah  | Jordan Chamber of Industry |

### **Session 2 (15:30 – 17:00)**

| <b>No.</b> | <b>Time</b>   | <b>Measurements &amp; Calibration Capabilities in Arab countries</b>   |  |
|------------|---------------|--|--|
| S2-1       | 15:30 – 15:45 | Establishing Metrology Arab Program<br><b>Samir Al Zaher</b> (Syria National Laboratory)   |  |
| S2-2       | 15:45 – 16:00 | Yemen Experience in Calibration & Measurements<br><b>A. Yehia Al Basha</b> (Yemen Standards Org.)                                    |  |
| S2-3       | 16:00 – 16:15 | The Role of the National Institute of Standards in Egypt<br><b>Ali Abuelezz</b> (NIS)  |  |
| S2-4       | 16:15 – 16:30 | Technical Capabilities of Syria National Laboratory of Calibration & Measurements<br><b>Nasser Harba</b> (Syria National Laboratory) |  |
| S2-5       | 16:30 – 16:45 | Mass and Force Division Facility at NIS<br>Nadia Abd-Elal and <b>Gamal Aggag</b>   |  |
| S2-6       | 16:45 – 17:00 | Photometry and Radiometry Division Facility at NIS<br><b>Mostafa El-Sheref</b>   |  |

### **Nile Cruise Tour & Diner**

**18:00 – 18:05** Gathering from the hotel to Nile Cruise and dinner  
**19:00 – 22:00** Nile Cruise and dinner



**Wednesday 7<sup>th</sup> November 2007**

| <b>Keynote Lectures (4 &amp; 5)</b> |               |                              |                    |
|-------------------------------------|---------------|------------------------------|--------------------|
| K -4                                | 09.00 – 09.30 | Prof. Dr. Ahmed Ali El Sayed | NIS - Egypt        |
| K -5                                | 09.30 – 10.00 | Prof. Dr. Martin Keiser      | PTB - Germany      |
| <b>Chairpersons</b>                 |               | Prof. Dr. H Eissa            | BUE Vice President |
|                                     |               | Dr. Samir Al Zaher           | NSCL - Syria       |

**Session (3) (10:00 – 11:00)**

| No.  | Time          | <b>Calibration &amp; Measurements and Quality Systems</b>   |  |
|------|---------------|---|--|
| S3-1 | 10:00 – 10:15 | Towards a CIPM MRA Standards of Equivalence NIS Experience<br><b>Ebtisam H. Hasan and Yaser Abdel Fattah, Ahmed A. El Sayed</b>               |  |
| S3-2 | 10:15 – 10:30 | Update on Time and Frequency Activities at NIS<br><b>Safaa Samuel , Ahmed Hisham and Ghada Mamdouh (NIS)</b>                                  |  |
| S3-3 | 10:30 – 11:45 | Proficiency Testing Role and Importance<br><b>M. Amer (NIS- PT Unit - Egypt)</b>  |  |
| S3-4 | 10:45 – 11:00 | JNMI technical capabilities, experience in obtaining International accreditation and Role in Society<br><b>Fawaz allabadi (JNMI - Jordan)</b> |  |

**Coffee Break (11:00 – 11:30)**

| <b>Keynote Lectures (6)</b> |               |                          |                              |
|-----------------------------|---------------|--------------------------|------------------------------|
| K -6                        | 11.30 – 12.00 | NIST – U.S.A             | NIST – U.S.A                 |
| <b>Chairpersons</b>         |               | Prof. Dr. H Abd-Elhakem  | NIS –Egypt                   |
|                             |               | Eng. Ahmed Abd-el-Rahman | Giyad Industrial Group-Sudan |
|                             |               | Eng. Ahmed Abd-el-Rahman | JNMI - Jordan                |

**Session (4) (12:00 – 14:00)**

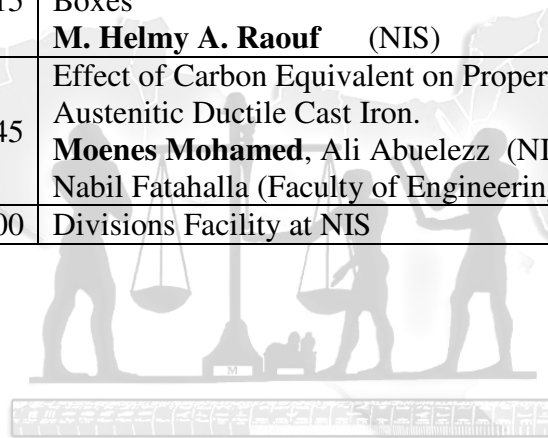
| No.  | Time          | <b>Role of Metrology in Quality &amp; Arab Trade Promotion</b>  |  |
|------|---------------|---|--|
| S4-1 | 12:00 – 12:20 | Precision Measurement of Viscosity and Its Effect on the Quality of Many Industries<br><b>M.M. Mekawy &amp; N.I. El-Sayed (NIS)</b> |  |
| S4-2 | 12:20 – 12:40 | Importance of Measurement as a mean for Quality, Competitive Consumer Protection<br><b>Atef Ahmed (Canal Electricity Co.)</b>       |  |
| S4-3 | 12:40 – 13:00 | Effect of relative humidity and moisture on different industries.<br><b>N.I. El-Sayed &amp; M.M. Mekawy (NIS)</b>                   |  |
| S4-4 | 13:00 – 13:20 | Economic Evaluation of Power Quality Using Neural Network<br><b>Talat Abu El-Fotoh (Electrical co.)</b>                             |  |
| S4-5 | 13:20 – 13:40 | Electro-Magnetic-Compatibility, EMC<br><b>Sohair Fakhry (NIS)</b>   |  |
| S4-6 | 13:40 – 14:00 | Electric Division Facility at NIS<br><b>M. Helmy A. Raouf</b>   |  |

## Lunch (14:00 – 15:00)

| <b>Keynote Lectures (7)</b> |               |                             |            |
|-----------------------------|---------------|-----------------------------|------------|
| K-7                         | 15.00 – 15.30 | Mr. Mr. J. Lendi            | TRIMOS Co  |
| <b>Chairpersons</b>         |               | Prof. Dr. Thrwat Zahwi      | NIS -Egypt |
|                             |               | Eng. Ahmad A. Yehea Elbasha | Yemen      |

## Session (5) (15:30 – 17:00)

| <b>No.</b> | <b>Time</b>   | <b>Calibration Practical Experiences</b>   |
|------------|---------------|--|
| S5-1       | 15:30 – 15:45 | Establishing accredited Medical equipment Calibration Laboratory.<br><b>Manal Abdel Wahed</b> , Sherif Ahmed Samy, Mohamed Montaser<br>(Faculty of Engineering – Cairo Univ)                 |
| S5-2       | 15:45 – 16:00 | Proposed Design for Primary Vickers Hardness Standard Machine<br><b>G. Mohamad</b> , M. Ibrahim , A. Abuelezz ( <b>NIS</b> )<br>A. Khattab (Faculty of Engineering-Cairo Univ.)              |
| S5-3       | 16:00 – 16:15 | New Theoretical Concept for Accurate Calibration of Capacitance Boxes<br><b>M. Helmy A. Raouf</b> (NIS)  |
| S5-4       | 16:30 – 16:45 | Effect of Carbon Equivalent on Properties of High Nickel Austenitic Ductile Cast Iron.<br><b>Moenes Mohamed</b> , Ali Abuelezz (NIS)<br>Nabil Fatahalla (Faculty of Engineering-Azhar Univ.) |
| S5-5       | 16:45 – 17:00 | Divisions Facility at NIS  |



**Thursday 8<sup>th</sup> November 2007**

|               |   |   |
|---------------|---|---|
| 09:00 - 09:10 | Gathering from the hotel to Visit NIS           |   |
| 10:00 – 13:30 | Visit To National Institute for Standards (NIS) |   |
| 13:30 – 14:00 | Back to Hotel                                   |   |
| 14:00 – 15:00 | Concluding Session                              |   |
| Chairpersons  | Prof. Dr. M. El-Sherbiny                        | Councilor for Minister of Higher Education and Scientific Research    |
|               | Prof. Dr. H. Eissa                              | President of NIS -Egypt   |
|               | Mr. H. Abd-Elaliem                              | Councilor for Secretary General of the Council of Arab Economic Unity |
|               | Mr. Nabeel F. Hasanain                          | Arab Federation for Engineering Industries Chairman                   |
|               | Prof. Dr. A. Abuelezz                           | General secretary of Conference                                       |
| 15.00 – 16.00 | Lunch   |   |