### Symposium Program

**DAYS 1 – 15th December 2014**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenter</th>
<th>Title</th>
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<tbody>
<tr>
<td>08:30 – 09:15</td>
<td>Registration</td>
<td></td>
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<tr>
<td>09:15 – 9:30</td>
<td>Guests to be seated</td>
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<tr>
<td>09:30 – 09:35</td>
<td>Recitation</td>
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<tr>
<td>09:35 – 09:40</td>
<td>Dr. Aqif A. Chaudhry</td>
<td>Symposium Secretary &amp; Head IRCBM, Lahore</td>
<td>Welcome and Opening Remarks</td>
</tr>
<tr>
<td>09:40 – 09:45</td>
<td>Prof. Intesham U. Rehman</td>
<td>IRCBM &amp; University of Sheffield, UK</td>
<td>Introduction to IRC in Biomedical Materials, CIIT Lahore.</td>
</tr>
<tr>
<td>09:45 – 09:50</td>
<td>Prof. Syed M. Awais (SI)</td>
<td>Chairman DOST, KEMU/MHL, Lahore</td>
<td>Speech</td>
</tr>
<tr>
<td>09:50 – 09:55</td>
<td>Maj. Gen (R) Prof. Muhammad Aslam</td>
<td>Vice Chancellor, UHS, Lahore</td>
<td>Speech</td>
</tr>
<tr>
<td>09:55 – 10:05</td>
<td>Prof. Syed M. Junaid Zaidi (HI, SI)</td>
<td>Rector CIIT</td>
<td>Speech</td>
</tr>
<tr>
<td>10:05 – 10:20</td>
<td>Chief Guest</td>
<td></td>
<td>Speech</td>
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**10:20-10:45**

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<tr>
<th>Time</th>
<th>Presenter</th>
<th>Title</th>
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<tbody>
<tr>
<td>12:05 – 12:20</td>
<td>[4] Dr. Ayesha Saeed</td>
<td>A Rare Case of Huge Pelvic Aneurysmal Bone Cyst managed with Arterial Embolization and Extended Curettage with Bone Cementing</td>
</tr>
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**13:05 – 13:10**

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<thead>
<tr>
<th>Time</th>
<th>Presenter</th>
<th>Title</th>
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<tbody>
<tr>
<td>13:10 – 14:00</td>
<td>Lunch Break</td>
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**Session 1: Materials for Hard Tissue Repair**

**Session Chair: Prof. Dr. Fazal A. Khalid**

- **11:30 – 15:45**
  - **Closing Remarks by Session Chair**
  - **Poster display can be accessed in Main Foyer**

**Session 2: Tissue Engineering and Regenerative Medicine**

**Session Chair: Prof. Jean-Louis Marty**

- **14:00 – 15:45**
  - **Closing Remarks by Session Chair**
  - **Refreshments**
16:00 – 17:25

Session 3: Biomaterial Synthesis, Applications and Evaluation
Session Chair: Prof. Saadat A. Siddiqui

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Duration</th>
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<tbody>
<tr>
<td>16:00</td>
<td>Invited Lecture: Prof. Fazal A. Khalid</td>
<td>FMSE, GIKI, Swabi</td>
<td>Advanced Materials for Biomedical Applications</td>
</tr>
<tr>
<td>16:20</td>
<td>Invited Lecture: Dr. Atif Javed</td>
<td>Department of Polymer and Process Engineering, UET, Lahore</td>
<td>A Paradigm Shift: Multifunctional Smart Composite Systems Innovation through Nanotechnology, Material Science and Life Sciences</td>
</tr>
<tr>
<td>16:35</td>
<td>Dr. Abdul Wadood</td>
<td>Department of Material Science and Engineering, IST, Islamabad</td>
<td>Ti-Ni and Ti-Cr-Sn Shape Memory Biomaterials</td>
</tr>
<tr>
<td>16:50</td>
<td>Muhammad Ahsan Shafique</td>
<td>Department of Physics, GC University, Lahore</td>
<td>Nitrogen Induced Osteoconductivity and Nucleation in Stainless Steel 306</td>
</tr>
<tr>
<td>17:05</td>
<td>Dr. Muhammad Imran Din</td>
<td>Institute of Chemistry, University of The Punjab, Lahore</td>
<td>Kinetic and Thermodynamic Parameters of S-Fluorouracil (S-F) Adsorption on Carbon Nanotubes</td>
</tr>
<tr>
<td>17:20</td>
<td>Closing Remarks by Session Chair and Day 1 Closure</td>
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DAY 2 – 16th December 2014

09:00 – 10:40

Session 4: Nanotechnology & Biomedical Imaging
Session Chair: Prof. Jonathan C. Knowles

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
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<tbody>
<tr>
<td>09:00</td>
<td>Keynote Lecture: Prof. Jawwad A. Darr</td>
<td>Department of Chemistry, UCL, UK</td>
<td>Recent Highlights in Biomaterials and Healthcare Technologies at UCL</td>
</tr>
<tr>
<td>09:30</td>
<td>Invited Lecture: Dr. Nasir Raza Awan</td>
<td>Sharf Medical and Dental College, Lahore</td>
<td>Neuromodulation, Brain Implants and Development of Nanoparticles</td>
</tr>
<tr>
<td>09:50</td>
<td>Dr. Ayesha Anjum</td>
<td>Department of Physics, CIIT, Lahore</td>
<td>Differentiation of AD, MCI &amp; Normal Conditions using AV-45 &amp; FDG PET Imaging. A Machine Learning Approach</td>
</tr>
<tr>
<td>10:05</td>
<td>Dr. Maryam Qidwai</td>
<td>Altamash Institute of Dental Medicine, Karachi</td>
<td>Preparation and Characterization of Bioactive Composites and Fibers for Dental Applications</td>
</tr>
<tr>
<td>10:20</td>
<td>Sumaira Shah</td>
<td>Department of Botany, Bacha Khan University,Charsadda</td>
<td>Rapid Green Eco-friendly Synthesis of Gold Nanoparticles of Leaf Extract of Sageretia thra (Osbeck) Johnst and its Highly Antioxidant and Cytopathic Efficacy against Cancer Cells</td>
</tr>
<tr>
<td>10:35</td>
<td>Closing Remarks by Session Chair</td>
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<tr>
<td>10:40</td>
<td>Refreshments</td>
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Poster display can be accessed in Main Foyer

11:00 – 12:50

Session 5: Sensors & Biosensors
Session Chair: Prof. Ihtesham U. Rehman

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>11:00</td>
<td>Keynote Lecture: Prof. Jean Louis Marty</td>
<td>Universite de Perpignan Via Domitia, France</td>
<td>Biosensors In Medical Diagnosis</td>
</tr>
<tr>
<td>11:30</td>
<td>Dr. Abdul Niaz</td>
<td>Department of Chemistry, University of Science and Technology, Bannu</td>
<td>Isonicotinic acid Hydrazide-Based Silver Nanoparticles as a Simple Colorimetric Sensor for the Detection of Cr3+</td>
</tr>
<tr>
<td>11:45</td>
<td>Dr. Mian Hasnain Nawaz</td>
<td>IRCBM, CIIT Lahore</td>
<td>C60 and Graphene based Nano-fibers for Biomedical Applications</td>
</tr>
<tr>
<td>12:00</td>
<td>Effat Sitara</td>
<td>Department of Chemistry, Karakoram International University, Gilgit</td>
<td>Synthesis of Carbon Nano Dots and Their Use as Ratiometric Fluorescence Sensor for Detecting Hg2+ ions in water</td>
</tr>
<tr>
<td>12:15</td>
<td>Shahid Mahmood</td>
<td>Department of Physics, CIIT, Islamabad</td>
<td>Reaction kinetics of the (Au/Ag)-MWCNTs Nanocomposite Modified Electrodes by Electrochemical Impedance Spectroscopy (EIS)</td>
</tr>
<tr>
<td>12:30</td>
<td>Saima Rafique</td>
<td>Department of Physics, CIIT Islamabad</td>
<td>Effect of Nanostructures on Electrochemical Properties of Biosensing Properties: Electrochemical Immunosensor for Prostate Specific Antigens using a Label-free Second Antibody based on Silica Nanoparticles and Polymer Brush</td>
</tr>
<tr>
<td>12:45</td>
<td>Closing Remarks by Session Chair</td>
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<tr>
<td>12:50</td>
<td>Lunch Break</td>
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<tr>
<td>13:45</td>
<td>Keynote Lecture: Dr. Jukka Pekka Matinlinna</td>
<td>Faculty of Dentistry, The University of Hong Kong</td>
<td>Silicon Chemistry Applications in Dentistry and Beyond</td>
</tr>
<tr>
<td>14:15</td>
<td>Keynote Lecture: Prof. Ihtesham-ur-Rehman</td>
<td>Department of Materials Science &amp; Engineering, University of Sheffield, UK</td>
<td>Dental Materials for Periodontal Lesions</td>
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Symposium Secretariat: Interdisciplinary Research Centre in Biomedical Materials (IRCBM), COMSATS Institute of Information Technology, Defence Road, Off Raiwind Road, Lahore, Pakistan. Phone No. +92 (0) 111001007 Ext: 828/829, Fax No. +92 (0) 4235321090 email: isbm@ciitlahore.edu.pk
<table>
<thead>
<tr>
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<th>Speaker/Contributor</th>
<th>Topic/Details</th>
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<tbody>
<tr>
<td>14:55 – 15:10</td>
<td>[32] Dr. Shahab ud Din</td>
<td>Dental Materials Department, AMC/NUS, T. Islamabad</td>
<td>Effects of Sodium Hypochlorite Disinfectant on Mass Change of Hydrophilic Vinyl Polysiloxane Impression Materials</td>
</tr>
<tr>
<td>15:10 – 15:25</td>
<td>[33] Dr. Muhammad Kaleem</td>
<td>Dental Materials Department AMC NUST, Islamabad</td>
<td>Comparison of Chemical and Morphological Characteristics of Mineral Trioxide Aggregate and Portland Cements</td>
</tr>
<tr>
<td>15:25 – 15:40</td>
<td>[34] Dr. Muhammad Amber Fareed</td>
<td>FMH College of Medicine &amp; Dentistry, Lahore</td>
<td>Indications of Dental Composite Restorations Repair – A Survey of Dental Schools in Pakistan</td>
</tr>
<tr>
<td>15:40 – 15:45</td>
<td>Closing Remarks by Session Chair</td>
<td></td>
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<tr>
<td>15:45 – 16:00</td>
<td>Refreshments</td>
<td></td>
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</tr>
<tr>
<td>16:00 – 16:30</td>
<td>[35] Keynote Lecture: Dr. Nicola Green</td>
<td>Kuroto Research Institute, University of Sheffield, UK</td>
<td>Getting More Out of the Analysis of Tissue-Engineered Constructs</td>
</tr>
<tr>
<td>16:30 – 16:45</td>
<td>[36] Dr. Nasir Mehmood</td>
<td>Department of Allied Health Sciences &amp; Chemical Pathology, UHS, Lahore</td>
<td>Apoptosis Regulating Proteins Expression in Response to Curcumin in Human Cervical Carcinoma (HeLa) Cell</td>
</tr>
<tr>
<td>16:45 – 17:00</td>
<td>[37] Dr. Asadullah Madni</td>
<td>Department of Pharmacy, Islamia University of Bahawalpur</td>
<td>Formulation and In-Vitro Characterization of Solid and Liquid Lipids Based Biomaterials for Temperature Sensitive Drug Release</td>
</tr>
<tr>
<td>17:00 – 17:15</td>
<td>[38] Dr. Fozia Iqbal</td>
<td>Institute of Chemistry, University of Campinas, UNICAMP, Brazil</td>
<td>Glycidyl methacrylate Bridged Polysilsequioxane Hybrid Silica for the Controlled Release of Ibuprofen and Mesalamine</td>
</tr>
<tr>
<td>17:15 – 17:30</td>
<td>[39] Dr. Umar Nishan</td>
<td>Department of Structural and Functional Cell Biology, UNICAMP, Brazil</td>
<td>Master Switch Regulatory Genes Involved with Prostate Gland Development and Remodeling after Castration</td>
</tr>
<tr>
<td>17:30 – 17:35</td>
<td>Closing Remarks by Session Chair and Day 2 closure</td>
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**DAY 3 – 17th December 2014**

**University-Industry-Clinician Interactive Session and Symposium Close**

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<tr>
<th>Time</th>
<th>Session/Event</th>
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<tbody>
<tr>
<td>09:30 – 09:40</td>
<td>Dr. Aqif A. Chaudhry</td>
<td>IRCBM, CIIT, Lahore</td>
<td>Research and Development: A Pakistani Perspective (including Scientific Session Summary)</td>
</tr>
<tr>
<td>09:40 – 10:00</td>
<td>Prof. Jean Louis Marty</td>
<td>Universite de Perpignan Via Domitia, France</td>
<td>University – Industry Linkages</td>
</tr>
<tr>
<td>10:00 – 10:20</td>
<td>Dr. Faraz Ahmad</td>
<td>Director Business Development, Ahmad Saeed &amp; Company, Lahore</td>
<td>Entrepreneurial Opportunities</td>
</tr>
<tr>
<td>10:20 – 10:40</td>
<td>Prof. Syed M. Awais</td>
<td>DOST, KEMU/MHL, Lahore</td>
<td>Prosthesis Development in Pakistan</td>
</tr>
<tr>
<td>10:40 – 11:00</td>
<td>Dr. Noor M. Shah</td>
<td>Director Medical Devices, Drug Regulatory Authority of Pakistan, Ministry of Health, Pakistan</td>
<td>Government Perspective</td>
</tr>
<tr>
<td>11:00 – 11:30</td>
<td>Refreshment</td>
<td></td>
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</tr>
<tr>
<td>11:30 – 11:50</td>
<td>Mr. Tariq Rehman</td>
<td>CEO, EMCO Industries, Pakistan</td>
<td>Significance of Certification and Standardization</td>
</tr>
<tr>
<td>11:50 – 12:20</td>
<td>Facilitators:</td>
<td></td>
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<tr>
<td>12:10 – 12:20</td>
<td>Prof. Jawad A. Darr (UCL, UK)</td>
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<tr>
<td>12:20 – 12:30</td>
<td>Prof. Mahmood A. Bodla</td>
<td>Director CIIT, Lahore</td>
<td>Guest of Honor Speech</td>
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<tr>
<td>12:30 – 12:50</td>
<td>Chief Guest</td>
<td></td>
<td>Speech</td>
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<tr>
<td>12:50 – 13:00</td>
<td>Prize &amp; Shield Distribution</td>
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<tr>
<td>13:00 – 13:10</td>
<td>Vote of Thanks and Symposium closure</td>
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<tr>
<td>13:10 – 14:00</td>
<td>Lunch</td>
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**Research Workshop**

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<tr>
<td>14:00 – 15:15</td>
<td>Prof. Jonathan C. Knowles</td>
<td>UCL Eastman Dental Institute, London, UK</td>
<td>The Art of Scientific Writing</td>
</tr>
<tr>
<td>15:15 – 16:30</td>
<td>Prof. Jawad A. Darr</td>
<td>Department of Chemistry, UCL, UK</td>
<td>How to Win Grants</td>
</tr>
</tbody>
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