










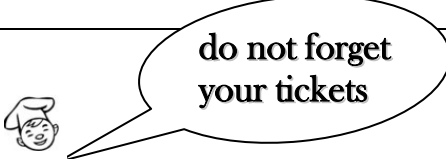
<b>Sunday, June 6, 2010</b>	
20:00–22:00	<b>REGISTRATION &amp; WELCOME DRINK</b> – reception desk, <b>Hotel Lero</b> , Dubrovnik, I. Vojnovića 14
<b>Monday, June 7, 2010</b>	
8:30–9:00	<b>REGISTRATION</b> – <b>Hotel Lero</b> , Dubrovnik, I. Vojnovića 14
<b>Lectures</b> – <b>Hotel Lero</b> , Dubrovnik, I. Vojnovića 14	
9:00–9:30	<b>OPENING CEREMONY – ADDRESSES</b> <i>Mateo MILKOVIĆ</i> , President, University of Dubrovnik <i>Roberto TODESCHINI</i> , President of the International Academy of Mathematical Chemistry <i>Nada BRUER–LJUBIŠIĆ</i> , Executive Secretary of the Inter–University Centre, Dubrovnik <i>Ante GRAOVAC</i> , Director of the MCC 2010 <b>LAUDATIO TO MIRCEA V. DIUDEA AND DRAGUTIN SVRTAN</b>
<b>25 YEARS</b>	
<b>Chairman:</b> Ali IRANMANESH	
9:30–10:00	<i>Nenad TRINAJSTIĆ</i> <b>EARLY DAYS OF THE MATH/CHEM/COMP MEETINGS</b>
10:00–10:30	<i>Ante GRAOVAC</i> <b>TWENTYFIVE YEARS OF THE MCC MEETINGS</b>
10:30–10:50	 Coffee Break
<b>HONOUREES' LECTURES</b>	
<b>Chairman:</b> Jerzy CIOSLOWSKI	
10:50–11:20	<i>Mircea V. DIUDEA</i> <b>SHELL–POLYNOMIALS IN NANOSTRUCTURES</b>
11:20–11:50	<i>Dragutin SVRTAN</i> <b>INTRINSIC FORMULA FOR FIVE POINT ATIYAH DETERMINANTS</b>
<b>Lecture</b>	
<b>Chairman:</b> Dragutin SVRTAN	
11:50–12:50	<i>Jerzy CIOSLOWSKI</i> <b>CHARGED PARTICLES IN SPHERICAL CONFINEMENTS</b>
<b>Lecture</b>	
<b>Chairman:</b> Mihai V. PUTZ	
16:00–16:40	<i>Darko BUTINA</i> <b>CLIMATEGATE, GLOBAL WARMING AND BAD SCIENCE</b>
16:40–17:00	 Coffee Break
<b>Course</b> – <b>Hotel Lero</b> , Dubrovnik, I. Vojnovića 14	
<b>Chairman:</b> István LÁSZLÓ	
17:00–17:40	<i>Mihai V. PUTZ</i> <b>THE ROLE OF PATH INTEGRALS IN QUANTUM CHEMISTRY</b>
18:30	<b>GUIDED CITY TOUR</b> <b>meeting point: in front of the Western Gate of the Old Town (PILE GATE)</b>



<b>Tuesday, June 8, 2010</b>	
<b>Lectures – <i>Hotel Lero</i>, Dubrovnik, I. Vojnovića 14</b>	
<b>GRAPH THEORY</b>	
<b>Chairman:</b> Alexandru T. BALABAN	
<b>8:30–9:10</b>	<i>Milan RANDIĆ</i> SOME OLD PROBLEMS AND SOME NEW RESULTS REVISITED
<b>9:10–9:40</b>	<i>Svetlan FERETIĆ</i> GENERATING FUNCTIONS AND BIJECTIONS FOR BI-WALL DIRECTED POLYGONS
<b>9:40–10:00</b>	 Coffee Break
<b>10:00–10:30</b>	<i>Gunnar BRINKMANN, Jan GOEDGEBEUR</i> GENERATING CUBIC GRAPHS (AGAIN)
<b>GRAPH THEORY: AROMATICITY</b>	
<b>Chairman:</b> Gilles CAPOROSSI	
<b>10:30–11:00</b>	<i>Alexandru T. BALABAN</i> PROBLEMS CONNECTED WITH THE AROMATICITY OF HYDROCARBONS AND HETEROCYCLES
<b>11:00–11:20</b>	<i>Alexandru T. BALABAN, Timothy K. DICKENS, Ivan GUTMAN, Roger B. MALLION</i> RING CURRENTS AND THE PCP RULE
<b>11:20–11:40</b>	<i>Jelena ĐURĐEVIĆ, Ivan GUTMAN</i> CONTRIBUTIONS TO THE THEORY OF FLUORANTHENES
<b>11:40–12:00</b>	 Coffee Break
<b>GRAPH THEORY: GRAPH SPECTRA</b>	
<b>Chairman:</b> Nenad TRINAJSTIĆ	
<b>12:00–12:30</b>	<i>Patrick FOWLER, Tomaž PISANSKI</i> EXPLORING HOMO-LUMO MAPS
<b>12:30–13:00</b>	<i>Mihai MEDELEANU, Dan CIUBOTARIU, Mircea MRACEC, Mircea V. DIUDEA</i> EIGENVALUES FOR SOME PARTICULAR GRAPHS



<b>Tuesday, June 8, 2010</b>	
<b>Lectures – <i>Hotel Lero</i>, Dubrovnik, I. Vojnovića 14</b>	
<b>GRAPH THEORY: GENERATION &amp; CHARACTERIZATION OF GRAPHS</b>	
<b>Chairman:</b> Ali Reza ASHRAFI	
<b>15:00–15:30</b>	<i>Nico VAN CLEEMPUT, Gunnar BRINKMANN, Olaf DELGADO–FRIEDRICH, Sebastian LISKEN, Adriaan PEETERS</i> <b>CaGe – A VIRTUAL ENVIRONMENT FOR STUDYING SOME SPECIAL CLASSES OF PLANE GRAPHS</b>
<b>15:30–16:00</b>	<i>Gilles CAPOROSSI, Boris FURTULA, Damir VUKIČEVIĆ</i> <b>BenzoGraphiX – A COMPUTER SYSTEM FOR STUDYING BENZENOIDS</b>
<b>16:00–16:15</b>	<i>Modjtaba GHORBANI, Maryam JALALI</i> <b>SOME CLASSES OF GEOMETRIC–ARITHMETIC INDICES</b>
<b>16:15–16:30</b>	 Coffee Break
<b>Chairman:</b> Ivan GUTMAN	
<b>16:30–17:00</b>	<i>Damir VUKIČEVIĆ</i> <b>BOND ADDITIVE MODELING – RANDOMNESS vs. DESIGN</b>
<b>17:00–17:15</b>	<i>Zahra YARAHMADI, Ali Reza ASHRAFI, Modjtaba GHORBANI</i> <b>THE BIPARTITE EDGE FRUSTRATION OF AN INFINITE FAMILY OF FULLERENES</b>
<b>17:15–17:30</b>	<i>Jelena SEDLAR</i> <b>GLOBAL FORCING NUMBER OF THE BENZENOID PARALLELOGRAM</b>
<b>17:30–17:45</b>	 Coffee Break
<b>GRAPH THEORY: APPLICATIONS TO NANOSTRUCTURES</b>	
<b>Chairman:</b> Roger B. MALLION	
<b>17:45–18:00</b>	<i>Mohammad Ali IRANMANESH, Modjtaba GHORBANI</i> <b>ECCENTRIC CONNECTIVITY POLYNOMIALS OF SOME CLASSES OF FULLERENES</b>
<b>18:00–18:15</b>	<i>Morteza FAGHANI</i> <b>ON THE SYMMETRY OF FULLERENES</b>
<b>18:15–18:30</b>	<i>Zahra YARAHMADI, Hossein ABEDI</i> <b>COMPUTING THE FIRST GEOMETRIC–ARITHMETIC INDEX OF SOME NANO STRUCTURE</b>
<b>21:00</b>	<b>Sarah Michele Rajtmajer – Flute Concert</b> <b>SAMOSTAN SESTARA SLUŽBENICA MILOSRDA</b> <b>Branitelja Dubrovnika 19, Dubrovnik</b>

<b>Wednesday, June 9, 2010</b>	
<b>Lectures – <i>Hotel Lero</i>, Dubrovnik, I. Vojnovića 14</b>	
<b>GRAPH THEORY: APPLICATIONS TO NANOSTRUCTURES</b>	
<b>Chairman:</b> Dejan PLAVŠIĆ	
<b>9:00–9:40</b>	<i>Michel DEZA</i> SPACE FULLERENES: COMPUTER SEARCH FOR NEW FRANK–KASPER STRUCTURES
<b>9:40–10:10</b>	<i>Mathieu DUTOUR–SIKIRIĆ, Patrick W. FOWLER</i> CUBIC POLYHEDRAL RAMANUJAN GRAPHS WITH FACE SIZE NO LARGER THAN 6
<b>10:10–10:25</b>	<i>Ali MADANSHEKAF, Marjan MORADI</i> THE RANDIĆ INDEX OF DENDRIMER NANOSTARS
<b>10:25–10:40</b>	<i>Gholam Hossein FATH–TABAR, Ali Reza ASHRAFI</i> THE ESTRADA INDEX OF SOME FULLERENES
<b>10:40–11:00</b>	 Coffee Break
<b>Chairman:</b> Michel DEZA	
<b>11:00–11:40</b>	<i>Ali IRANMANESH, Mehdi ELIASI</i> THE MULTIPLICATIVE WIENER INDEX OF SOME NANOTUBES AND NANOTORUS
<b>11:40–12:20</b>	<i>Ali Reza ASHRAFI, Mahboubeh SAHELI</i> ENUMERATION OF TOROIDAL POLYHEXES – TOWARDS A CLOSED FORM SOLUTION
<b>12:20–12:35</b>	<i>Sirous MORADI, Soraya BABARAHIM</i> COMPUTING TWO TYPES OF GEOMETRIC–ARITHMETIC INDEX OF TUC <sub>4</sub> C <sub>8</sub> (S) NANOTUBE
<b>12:35–12:50</b>	<i>Moigan MOGHARRAB, Ali Reza ASHRAFI, Modjtaba GHORBANI</i> THE ECCENTRIC POLYNOMIALS OF SOME NEW CLASS OF NANOSTRUCTURES
<b>Lectures</b>	
<b>Chairman:</b> Edward C. KIRBY	
<b>15:00–15:30</b>	<i>Leo KLASINC, Gordana PEHNEC, Glenda ŠORGO, Vladimira VADIĆ</i> MODELING OF OZONE AND HYDROGEN PEROXIDE IN AIR
<b>15:30–16:00</b>	<i>Ivana BILJAN, Ivan HALASZ, Srđan MILOVAC, Hrvoj VANČIK</i> ADVANCES IN NITROSO CHEMISTRY
<b>Course – <i>Hotel Lero</i>, Dubrovnik, I. Vojnovića 14</b>	
<b>Chairman:</b> Leo KLASINC	
<b>16:00–16:45</b>	<i>Eduard MATITO</i> MOLECULAR VIBRATIONS: ACCOUNT ON VIBRATIONAL WAVEFUNCTIONS AND POTENTIAL ENERGY SURFACES – <i>Part I</i>
<b>16:45–17:00</b>	 Coffee Break
<b>17:00–17:45</b>	<i>Eduard MATITO</i> MOLECULAR VIBRATIONS: ACCOUNT ON VIBRATIONAL WAVEFUNCTIONS AND POTENTIAL ENERGY SURFACES – <i>Part II</i>

<b>Wednesday, June 9, 2010</b>
<b>Posters – <i>Hotel Lero</i>, Dubrovnik, I. Vojnovića 14</b>
<b>Moderator:</b> Damir VUKIČEVIĆ
Posters given below are exhibited from <b>18:00</b> , and are open for discussion till <b>19:30</b> .
<u>Mohammad ADABITABAR FIROUZJA, Gholam Hossein FATH-TABAR</u> <b>THE NUMBER OF CLOSED WALKS OF SOME INFINITE CLASS OF FULLERENES</b>
<u>Azizollah AZAD, Mehdi ELIASI</u> <b>DISTANCE IN THE NON-COMMUTATIVE GRAPH OF GROUPS</b>
<u>Samir BOUACHA, Abdelhafid D.A. DJEROUROU</u> <b>THEORETICAL STUDY OF 1,3-DIPOLAR CYCLOADDITIONS OF PHENYL AZIDE WITH DIFFERENT OLEFINS USING DFT-BASED REACTIVITY INDEXES</b>
<u>Mustafa BÖYÜKATA, Ziya B. GÜVENÇ</u> <b>CARBONMONOXIDE ADSORPTION ON 4-, 5- AND 6-ATOM CAGE BORON MICROCLUSTERS</b>
<u>Franco CATALDO</u> <b>FULLERENE SOLUBILITY IN FATS AND THEIR POTENTIAL APPLICATION AS ANTINEOPLASTIC AGENTS</b>
<u>Fatemeh DAVAR, Masoud SALAVATI-NIASARI, Seyed Nezamoddin MIRSATTARI</u> <b>THE REHYBRIDIZATION EFFECT ON CYCLIC COMPOUNDS</b>
<u>Morteza FAGHANI, Ali Reza ASHRAFI</u> <b>ON WIENER INDEX OF NANOSTRUCTURES</b>
<u>Snježana MAJSTORVIĆ, Antoaneta KLOBUČAR</u> <b>K-DOMINATION SETS ON SOME SPECIAL TYPES OF HEXAGONAL CHAINS</b>
<u>Željko MARINIĆ, Davor MARGETIĆ</u> <b>NMR CONFORMATIONAL STUDIES AND MOLECULAR MODELING OF NOVEL BIS-PORPHYRIN SUPRAMOLECULAR SYSTEMS</b>
<u>Mladen MARTINIŠ</u> <b>REALITY OF THE ZERO POINT ENERGIES?</b>
<u>Sirous MORADI, Zahra YARAHMADI</u> <b>EXTREMAL POLYOMINO CHAINS WITH RESPECT TO THE ECCENTRIC CONNECTIVITY INDEX</b>
<u>Tudor OLARIU, Vicentiu VLAIA, Ciprian CIUBOTARIU, Lavinia VLAIA, Mihai MEDELEANU, Mircea MRACEC, Dan CIUBOTARIU</u> <b>MOLECULAR OVALITY DESCRIPTORS IN MODELING THE TOXICITY OF ALIPHATIC ESTERS ON TETRAHYMENA PYRIFORMIS</b>
<u>Bijan RAHIMI, Mohammad ADABITABAR FIROUZJA, Gholam Hossein FATH-TABAR</u> <b>THE PI-INDEX OF SOME NANO STRUCTURES</b>
<u>Milan RANDIĆ, Dejan PLAVŠIĆ</u> <b>title to be announced</b>
<u>Nenad RAOS, Ante MILIČEVIĆ</u> <b>ESTIMATION OF THE OVERALL STABILITY CONSTANT OF CADMIUM(II) BIS-COMPLEXES WITH ALIPHATIC <math>\alpha</math>-AMINO ACIDS USING <math>^3\chi</math> INDEX</b>
<u>Masoud SALAVATI-NIASARI</u> <b>DENSITY FUNCTIONAL B3LYP AND B3PW91 STUDIES OF THE PROPERTIES OF SOME CYCLIC ORGANODIBORANES</b>
<u>Kimichi SUZUKI, Megumi KAYANUMA, Umpei NAGASHIMA, Hirotomo NISHIHARA, Takashi KYOTANI, Hiroshi OGAWA</u> <b>THEORETICAL STUDY OF HYDROGEN ADSORPTION AND DIFFUSION IN SPILLOVER PROCESS ON MICROPOROUS CARBON</b>
<u>Hiroyuki TERAMAE, Yasuko Y. MARUO, Jiro NAKAMURA</u> <b>THEORETICAL STUDY ON THE GROUND AND EXCITED STATES OF 3,5-DIACETYL-1,4-DIHYDROLUTIDINE</b>
<u>Zahra YARAHMADI, Ali Reza ASHRAFI</u> <b>THE ECCENTRIC CONNECTIVITY INDEX OF AN INFINITE FAMILY OF NANOSTAR DENDRIMERS</b>
<u>Hassan YOUSEFI-AZARI, Ali Reza ASHRAFI</u> <b>WIENER INDEX OF DENDRIMER NANOSTARS</b>

<b>Thursday, June 10, 2010</b>	
<b>Lectures – <i>Hotel Lero</i>, Dubrovnik, I. Vojnovića 14</b>	
<b>FULLERENES, NANOTUBES &amp; GRAPHENE</b>	
<b>Chairman:</b> Ottorino ORI	
<b>8:30–9:10</b>	<i>Harold KROTO</i> <b>THE FULLERENES – WHERE THE SCIENCES AND ARTS MEET TO MUTUAL ADVANTAGE</b>
<b>9:10–9:50</b>	<i>Haruo HOSOYA</i> <b>EXCEPTIONALLY HIGH STABILITY OF SOCCER BALL C<sub>60</sub> AMONG SPHERICALLY POLYHEDRAL <math>\pi</math>-ELECTRON NETWORKS</b>
<b>9:50–10:20</b>	<i>István LÁSZLÓ</i> <b>ANALYTICAL FORMULAS FOR CALCULATING CURVATURE EFFECTS AND HYBRIDIZATION IN ZIGZAG CARBON NANOTUBES</b>
<b>10:20–10:40</b>	 <b>Coffee Break</b>
<b>Chairman:</b> Haruo HOSOYA	
<b>10:40–11:10</b>	<i>Franco CATALDO</i> <b>STABILITY OF FULLERENES AND FULLERANES TOWARD CORPUSCULAR AND ELECTROMAGNETIC RADIATION</b>
<b>11:10–11:30</b>	<i>Franco CATALDO, Ottorino ORI, Ante GRAOVAC</i> <b>STONE–WALES WAVES IN GRAPHENE LAYERS</b>
<b>11:30–11:50</b>	<i>Tomislav DOŠLIĆ, Matjaž KRNC, Borut LUŽAR</i> <b>NEW BOUNDS ON SOME FULLERENE INVARIANTS</b>
<b>13:00</b>	<b>EXCURSION</b> do not forget your tickets
<b>20:00</b>	<b>Conference Dinner</b>  do not forget your tickets

<b>Friday, June 11, 2010</b>	
<b>Lectures – <i>Hotel Lero</i>, Dubrovnik, I. Vojnovića 14</b>	
<b>MODERN TIMES: EDUCATION &amp; NETWORKS</b>	
<b>Chairman:</b> Milan RANDIĆ	
<b>10:00–10:50</b>	<i>Harold KROTO</i> GOYOUWIKI WORLD (GYWW) – THE LAST CHANCE FOR THE SURVIVAL OF AN ENLIGHTENED WORLD?
<b>10:50–11:20</b>	<i>Andrés BERNAL, Edgar DAZA</i> THE COMPLEXITY OF CHEMICAL CLASSIFICATIONS
<b>11:20–11:40</b>	 Coffee Break
<b>Chairman:</b> Svetlan FERETIĆ	
<b>11:40–12:00</b>	<i>Damir VUKIČEVIĆ, Sarah Michele RAJTMAJER</i> STRUCTURE ANALYSIS AND HUB DETECTION IN COMPLEX NETWORKS
<b>12:00–12:20</b>	<i>Matevž BREN, Darko ZUPANC</i> ORDINAL STATISTICS TO ANSWER ORDINAL QUESTIONS
<b>12:30</b>	 <b>IUC – RECEPTION</b> <i>Hotel Lero, Dubrovnik, I. Vojnovića 14</i>
<b>Course – <i>Hotel Lero</i>, Dubrovnik, I. Vojnovića 14</b>	
<b>Chairman:</b> Tomislav DOŠLIĆ	
<b>17:00–18:00</b>	<i>Franka Miriam BRÜCKLER</i> LINEAR TRANSFORMATIONS IN CRYSTALLOGRAPHY – <i>Part I</i>
<b>18:00–18:15</b>	Break
<b>18:15–19:15</b>	<i>Franka Miriam BRÜCKLER</i> LINEAR TRANSFORMATIONS IN CRYSTALLOGRAPHY – <i>Part II</i>

<b>Saturday, June 12, 2010</b>	
<b>Lectures – <i>Hotel Lero</i>, Dubrovnik, I. Vojnovića 14</b>	
<b>DNA &amp; PROTEINS</b>	
<b>Chairman:</b> Urban BREN	
<b>9:00–9:40</b>	<i>Éva TŰDŐS, István SIMON</i> <b>PREDICTION ACCURACY MAY NOT PROVE HYPOTHESIS: THE CYSTEINE–CYSTINE CASE</b>
<b>9:40–10:00</b>	<i>Branimir BERTOŠA, Sanja TOMIĆ, Maja ALEKSIĆ, Grace KARMINISKI–ZAMOLA</i> <b>QSAR ANALYSIS OF HETEROCYCLIC AMIDES AND QUINOLONES WITH POTENTIAL ANTITUMOR ACTIVITY</b>
<b>10:00–10:20</b>	 <b>Coffee Break</b>
<b>Chairman:</b> István SIMON	
<b>10:20–11:00</b>	<i>Janez KONC, Dušanka JANEŽIČ</i> <b>ProBiS: A WEB SERVER FOR DETECTION OF STRUCTURALLY SIMILAR PROTEIN BINDING SITES</b>
<b>11:00–11:30</b>	<i>Urban BREN</i> <b>DNA INTERCALATION OF AFLATOXIN B<sub>1</sub> AND RELATED MICOTOXINS IS ENHANCED THROUGH PREORGANIZED ELECTROSTATICS OF THE EVOLUTIONARILY CONSERVED FUROFURAN REGION</b>
<b>11:30–11:40</b>	<b>CLOSING OF THE MEETING</b>
<b>12:00</b>	 <b>FAREWELL DRINK</b> <b><i>Hotel Lero</i>, Dubrovnik, I. Vojnovića 14</b>