$\begin{bmatrix} MC^{2}hem \\ a & 0 & . \\ t & . & m \\ h & . & . & p \end{bmatrix} A th/Chem/Comp 2017$ $29^{th} MC^{2} Conference$

Inter University Centre Dubrovnik 19 - 24 June 2017

CONFERENCE PROGRAM

MONDAY, 19 June

- **08:30-9:30** Registration (IUC, Don Frane Bulića 4, Dubrovnik)
- 9:30-10:00 H. Vancik and J. Cioslowski Conference opening B. Lučić, few words in honour of Professor Ivan Gutman
- **10:00-11:00** I. Gutman, The total π -electron energy saga

--- [coffee break] ---

- 11:30-12:15 R. B. Mallion, Ring-current properties of bispentalenes — comparison of ab initio and Hückel-London-Pople-McWeeny (HLPM) "topological" calculations
- **12:15-13:00 B. Lučić,** The outcome of reasoning based on models greatly depends on the procedure used for their validation
- **13:00-13:45 D. Svrtan,** Finding Largest small polygons via symbolic computations
- **13:45-14:30 B. Furtula**, Structural dependence of extended energy

TUESDAY, 20 June

- **9:00-9:45** J. Cioslowski, One-electron densities of freely rotating Wigner molecules
- **9:45-10:30 D. Fijan,** Thermodynamic anomalies and network topology in liquids
- --- [coffee break] ---
- **11:00-11:45 I. László,** Molecular dynamics simulation of carbon structures inside nanochambers
- **11:45-12:30 U. Bren,** Microwave effects on model aqueous solutions

13:00 IUC RECEPTION

WEDNESDAY, 21 June

- **9:00-9:45 H. A. Witek,** Zhang-Zhang polynomials of benzenoid structures and their application to geometry optimization of molecular crystals
- 9:45-10:30 A. Ali, On the n-vertex bicyclic graphs with minimum reduced reciprocal Randić index
- **10:30-11:15 J. Langer,** Interface theory of benzenoid structures
- **11:15-12:00 A. R. Ashrafi,** Symmetry-based topological indices of molecular graphs

14:00 CONFERENCE TRIP

THURSDAY, 22 June

- 9:00-9:45 M. Solà, The aromaticity in low-lying excited states
- **9:45-10:30 H. U. Siehl,** Quantum chemical calculation of amino-substituted but-2-yne dications. Distonic and gitonic character?
- **10:30-11:15 A. Amic,** The role of guaiacyl moiety in radical scavenging by 3,5-dihydroxy-4-methoxybenzyl alcohol
- --- [coffee break] ---
- **11:45-13:45 T. Hrenar,** Workshop: Advanced statistical analysis of molecular dynamics data

FRIDAY, 23 June

- **9:00-9:45** J. Đorović, Examination of antioxidant activity of phenolic functionalized piperidine
- **9:45-10:30 K. Varga,** Behaviour of 2-nitrosopyridines in solution and in solid state

--- [coffee break] ---

- **11:15-12:00** J. Tošović, Antioxidative activity of chlorogenic acid: DFT study
- **12:00-12:45 K. Héberger,** Bootstrap-like validation for sum of ranking differences

--- [lunch break] ---

16:00-18:00 H. Vančík, Workshop: Basic ideas in philosophy of chemistry

SATURDAY, 24 June

9:00-11:00 Poster session

11:00 Conference summary / discussions / closing