

FOREWORD

The MATH/CHEM/COMP' 95 International Course & Conference, the tenth in a series of meetings on the interfaces between mathematics, chemistry and computer sciences, was held again in Dubrovnik and for the second time in the reconstructed building of the Inter-University Center. Due to the circumstances in the region, the number of participants declined. However, the meeting was still able to attract 15 foreign and 25 domestic participants.

A variety of mathematical topics of interest for chemistry were covered: enumeration of polyominoes, quantum groups, Pearson-type distributions, characterization of molecular graphs, Wiener- & Schultz-type indices, and graph complexity. Mathematical and computational methods were applied to a series of problems: bullvalene reaction graph, generation of fullerenes, analysis of sequences which code proteins, fluorescence decay analysis, and long range deuterium isotope effects in C-13 NMR. Fundamentals were discussed as well: some errors in quantum electrodynamics and interaction between electromagnetic fields and matter. Impressive chemically oriented lectures were given by Prof. Ugi and his co-workers on multicomponent chemistry and the use of topology and group theory in stereochemistry, by Prof. Van Wart on the kinetics of enzyme-catalyzed reactions, and by the co-workers (Lončar & Raić) of Prof. Mintas on nucleotide analogues, chromenes and other interesting molecules. Besides lectures the MATH/CHEM/COMP' 95 meeting entailed also courses on the nature of theoretical research (Trinajstić), generating functionology (Veljan), and graph codes and invariants (Randić).

A part of the above contributions are collected in this issue. Some contributions were sent in by colleagues who were unable to attend the meeting. One of these is by our dear colleague and a great supporter of the Dubrovnik meetings, Professor Peter Csavinszky of University of Maine (Orono, USA), who died on December 31, 1995. He will be missed by all of us who attended the MATH/CHEM/COMP meetings and we dedicate the present issue to his memory.

Organization of the MATH/CHEM/COMP' 95 was possible due to the help of the Inter-University Center (Dubrovnik), Rugjer Bošković Institute (Zagreb) and Resource Use Institute (Pitlochry, Scotland, UK) and was held under the joint auspices of these institutions and International Society of Mathematical Chemistry & International Society for Theoretical Chemical Physics. The financial support of the Ministry of Science and Technology of the Republic of Croatia, DAAD & DFG of F. R. Germany. Open Society Institute (Zagreb), International Science Foundation (New York), Board of Atlas (Dubrovnik), Pliva, Pharmaceutical Works (Zagreb), and Rhone-Poulenc Representative Office (Zagreb) is gratefully acknowledged.

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Ante Graovac

Dubrovnik 1995

the albatross yells
let me stab with my bill
the eclipse of sun
the albatross yells
let me heal with my wing
the wounds of shore
the albratross yells
let me spread the white wave
over Dubrovnik

M. V. Diudea