



Professor Dumitru OANCEA
Corresponding member of the Roumanian Academy

PROFESSOR DUMITRU OANCEA AT HIS 75th ANNIVERSARY

Professor Dumitru Oancea, corresponding member of the Roumanian Academy, celebrates his 75th anniversary. His personality and scientific activity are well recognized and widely appreciated in the national and international scientific community of physical chemists.

Born in Vulturești, Argeș County, on January 26th 1941, he graduated the Faculty of Chemistry of the University from Bucharest in 1964. Being selected by Professor Murgulescu as an eminent student, Dumitru Oancea began his teaching career in 1964 as assistant in the Department of Physical Chemistry, the Faculty of Chemistry, University of Bucharest, where he became full professor in 1994 and emeritus in 2012. In 1972 he defended his PhD thesis entitled “Kinetics of some ion-dipole reactions” under the supervision of Professor Ilie G. Murgulescu, member of the Roumanian Academy and founder of the Department of Physical Chemistry at the University of Bucharest.

Professor Oancea completed his formation as a brilliant researcher in USA between 1973-1974 working with Professor E.A. Arnett at the University Pittsburgh in Pennsylvania, in the field of proton transfer reactions. During the post-doc fellowship, he constructed a new type of calorimeter for measuring vaporization heats. Experiments with this new calorimeter allowed an advanced analysis of solvation process of ions and molecules in water and in non-aqueous solvents. Thus began a life-long interest in the kinetics of homogeneous reactions, which evolved into both experimental and theoretical investigations of a much more diverse range of topics.

In 1990 and 1992, in cooperation with Professor L. De Maeyer from the Max Planck Institut für biophysikalische Chemie in Göttingen, Professor Oancea was involved in studies regarding complex reactions in solutions. Due to his interest and basic contributions to the field of explosive combustion in gaseous mixtures, Professor Oancea was a visiting professor in the group of Professor H. Gg. Wagner from Institut für Physikalische Chemie of Göttingen University in 1993 and 1996, under a COST European program. In 1996 and 1999, the dissemination of original results in the field of gas-phase explosions was made through invited lectures in prestige institutions from Germany: Institut für Physikalische Chemie, University of Göttingen; Department of Physical Chemistry, University of Wuppertal; BAM (Bundesanstalt für Materialforschung und Prüfung) in Berlin and PTB (Physikalisch-Technische Bundesanstalt) in Braunschweig. These contacts in Germany were a good opportunity to establish cooperation of Roumanian groups with prestige research groups working in modern topics of physical chemistry.

The teaching activity of Professor Oancea was dedicated to modern aspects of physical chemistry, bound especially to the field of chemical kinetics. Professor Oancea introduced new topics for his lectures: Enzyme kinetics, Kinetics of catalytic reactions, Kinetics of complex reactions, Modeling of enzyme processes, Explosions and protection against explosions, Numerical processing of experimental data, Thermodynamics and kinetics of complex reactions. His rigorous lectures raised the interest of his many students and were very appreciated by students, many of them being graduated with works in these fields.

In 1996 Professor Oancea became PhD adviser. Since then, 14 researchers defended their PhD title under his tutorship.

The research activity of Professor Oancea in the field of chemical kinetics of reactions in homogeneous and heterogeneous systems is characterized by a diversity of subjects and techniques, using rigorous experimental methods and advanced theoretical interpretation of results. All methods and techniques developed in the laboratory of Professor Oancea were also used by students working their theses (BSc, MSc or PhD) under his supervision.

Essential contributions were brought by Professor Oancea to the study of complex chemical reactions in condensed state. Among them, one could mention the kinetics of ion-exchange reactions; the enzyme

kinetics; the kinetics of exothermal; self-accelerating decomposition of energetic compounds in condensed state. For numerous methods Professor Oancea elaborated the software dedicated to experimental data processing.

Since 1976 Professor Oancea has been involved in studies on the explosive combustion of gaseous mixtures, developing this interdisciplinary field in the Department of Physical Chemistry of the University of Bucharest, under a close, long-term cooperation with the Chemical Kinetics Laboratory from the Center of Physical Chemistry in Bucharest. His contribution was essential for this domain, by designing and building experimental set-ups and developing original methods for measuring relevant properties of flammable gaseous mixtures (explosion limits, maximum explosion pressures, severity factors, quenching distances, minimum ignition energies, normal burning velocities and propagation speeds, minimum ignition currents, induction periods etc). The new proposed method for investigating the kinetics of catalytic combustion in isothermal regime is most promising for the study of combustion-generated pollution and for its limitation. Valuable results were obtained also by modeling various steps of explosion initiation and propagation in gaseous mixtures. The field of gas-phase explosions was extended, for the first time in Roumanian academic research, to condensed systems, using the DSC technique.

The remarkable activity of Professor Oancea was presented in more than 180 published and cited papers issued in Roumanian and international prestige journals, of which about 130 are ISI-rated. He presented more than 170 scientific communications at national and international meetings. The list of publications of Professor Oancea includes also 3 textbooks and 6 books published by acknowledged publishing companies.

Professor Oancea has a fruitful managerial experience firstly as Head of the Department of Physical Chemistry, between 1990 – 1992 and 1996 – 1998. Between 1992 – 1996 he was scientific secretary of the Faculty Council. In 2004 he became the Dean of the Faculty of Chemistry, University of Bucharest, being active in this position until his retirement in 2012. Between 1996 - 2012, Prof. Oancea was a member in the Senate of the University of Bucharest. In these duties he was deeply involved in managing the teaching and the research activity of the Department of Physical Chemistry and of the Faculty of Chemistry.

Prof. Oancea is a member of the editorial board of *Revue Roumaine de Chimie* and reviewer for many important journals published in Roumania and abroad.

Between 1995-2005, Prof. Oancea was the Director of several national grants, of a contract with Deutsche Forschungsgemeinschaft from Germany and of a research contract financed by the World Bank and the Roumanian Government in the field of gas-phase explosions of fuel-air mixtures. Since 2006, he coordinates two bilateral cooperation agreements with research institutes from Berlin and Braunschweig, Germany.

Due to this remarkable activity, Professor Oancea was awarded the prize “Gheorghe Spacu” (1987) by the Roumanian Academy for “Study of the kinetics of fast reactions in gases”. He received the Medal “Gheorghe Spacu”, for distinguished contribution in promotion of chemistry in Roumania, awarded in 2009 by the Roumanian Chemical Society.

He is a member of the Roumanian Chemical Society, of the Roumanian Catalysis Society and of the Combustion Institute (USA) and also in several organizing Committees of Romphyschem, the Roumanian Conference on Physical Chemistry and other scientific meetings.

Due to this outstanding activity, Professor Dumitru Oancea was elected in 2009 as corresponding member of the Roumanian Academy.

During his career, Professor Dumitru Oancea promoted links to other researchers and attracted many talented people to work in his research group, the purpose of studies being theoretical and experimental investigations on fundamental chemical kinetics, catalysis and combustion. His outstanding scientific activity, his broad scientific horizon and his managerial activity are remarkable, being an example for the young generation. His kind personality and the sense of humor were always appreciated by his students and coworkers and created a pleasant working atmosphere in his team.

We express him, at his 75th anniversary, together with his coworkers, colleagues and friends, the best wishes for a long healthy and fruitful life in the happy years to come.

The Editorial Board

LIST OF PUBLICATIONS**Papers published in ISI rated journals**

125. Influence of inert gas addition on propagation indices of methane-air deflagration
M. Mitu, M. Prodan, V. Giurcan, D. Razus, D. Oancea
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123. Feed-back action of nitrite in the oxidation of nitrophenols by bicarbonate-activated peroxide system
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121. Normal burning velocity and propagation speed of ethane-air: Pressure and temperature dependence
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120. Extension of isoconversional approach to enzyme inactivation for some uncommon systems
A. R. Leonties, A. Raducan, M. Puiu, D. Oancea
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119. Kinetics of isothermal catalytic ignition and combustion of LPG-air mixtures on platinum wire
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118. Physico-chemical parameters of C2 hydrocarbon-air flames resulted from computed and measured laminar burning velocities
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109. Numerical study of diluent influence on burning velocity of acetylene-air mixtures
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