

Editorial

TITLE: Special Issue in Electronics Structure and Molecular Dynamics

The V Symposium of Electronic Structure and Molecular Dynamics (V SeedMol) was held from 15-19 September 2014, in the Pousada dos Pireneus Resort. The symposium logo remains the same since its first edition (Figure 1). The event aims to connect

researchers and students from the area of molecular modeling of different systems of interest, for example, in catalysis, bioinformatics, drug design, biofuels, reaction kinetic, environmental chemistry, and development of computational methods. The researchers who develop and apply computational methods are generally from the areas of chemistry, physics, biology, computation and mathematics. The 5th edition of the event aims to provide a broad forum for research and debate. We are in the tenth year contributing to the dissemination of knowledge of related fields of theoretical chemistry and molecular modeling. Therefore, it is important to get a glimpse of the symposium trajectory.



SEEDMOL
SIMPÓSIO DE ESTRUTURA ELETRÔNICA E DINÂMICA MOLECULAR

Figure 1. Logo of SeedMol

The first edition took place as SeedMol-DF. An idea born from the Institute of Physics and Institute of Chemistry of the University of Brasilia, which soon had the support of the Institute of Biology, besides the Catholic University of Brasilia, Federal University of Goiás and the State University of Goiás. In this 1st edition participated not only researchers from the Midwest of Brazil, but also from other parts, with institutions such as USP, INPE and Unesp. The format of I SeedMol was characterized by student talks, with a total of 19 talks of undergraduates and graduate students and 19 conferences of invited researches. There were 76 participants and the event took place from 13-15 February 2006 at the University of Brasilia. The support was entirely from UNB.

The novelty of II SeedMol was to add a mini-course module and extend from three to five-day event, taking place from 25-29 February 2008. It was then characterized as a biennial event. The II SeedMol was attended by four foreign researchers and also key names of Brazilian researchers. 90 participants were enrolled in the II SeedMol and UNB again promoted the event. Until II SeedMol, the total resource input are only from the University of Brasilia.

Starting from the III SeedMol the event was moved to the second half of the year already with a more consolidated sketch of lectures and short courses. III SeedMol also take place at the University of Brasilia and was from 13 to 17 October 2008. It had the presence of several international researchers: Italy, Venezuela, Colombia, Chile, Argentina and Spain. There were 15 high-level speakers. It has added a new session at the event through two debates, which contributed to the discussion of relevant topics of researches. The integration of the debates was a great initiative providing discuss of two important topics for theoretical chemistry: new alternatives to the Hartree-Fock and free software. The third Edition was supported by CAPES/PAEP, which was fundamental to the achievement of its objectives, together with the support of CNPq.

The IV SeedMol included various national and international researchers. The novelty of this edition was due to the location of the event, which was transferred to the historical city of Pirenópolis. Another novelty was the first special edition of the event work in the *Processos Químicos* journal. Another important fact was the courses took entirely in English with renowned researchers of the international scene. Financial support came from

CAPES, CNPq, FAPEG and UNB. Again, two debates session added to the event with important discussions. In this IV SeedMol there was almost 120 participants, among professors, post-doctoral students, undergraduates and graduate students. With the presence of 15 speakers, among researchers from Brazil, Italy, USA, Venezuela, Spain, Japan and Colombia, who presented their researches at conference, and contributed to the background of the participants.

Then it became a consolidated event, with a significant impact to the participants, achieving an excellent level of satisfaction regarding the scientific dissemination. In this V SeedMol, as shown in Figure 2, most of the participants are coming from the Midwest of Brazil. One of the important elements in this V edition was the support in the organization, from researchers at the State University of Goiás (UEG) and the Federal University of Goiás (UFG), and the UnB. Agencies that supported the event are CNPq, FAPEG and CAPES. The novelty of this edition was an opening session with two lectures on the same point, nanomaterials: a theoretical and experimental approach. The number of participants, about 111, shows the consolidation of this event. This was an opportunity for scientific dissemination of this area in the Midwest of the country, benefiting national research groups, with the participation of national and international researchers. As in other editions, the participation of students and researchers from various universities shows the impact of the event.

Therefore, with the results of V SeedMol, it was concluded that the quality and quantity of presented researches in the event provide an opportunity for a special edition with original papers of V SeedMol. In this sense, the papers published in this Special Issue of the Revista Virtual de Química reflect the state of art of SeedMol, with excellent works in many different applications and development.

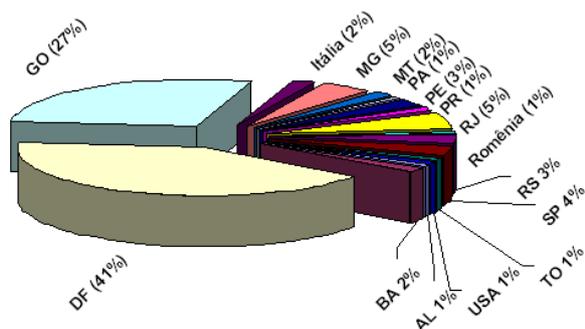
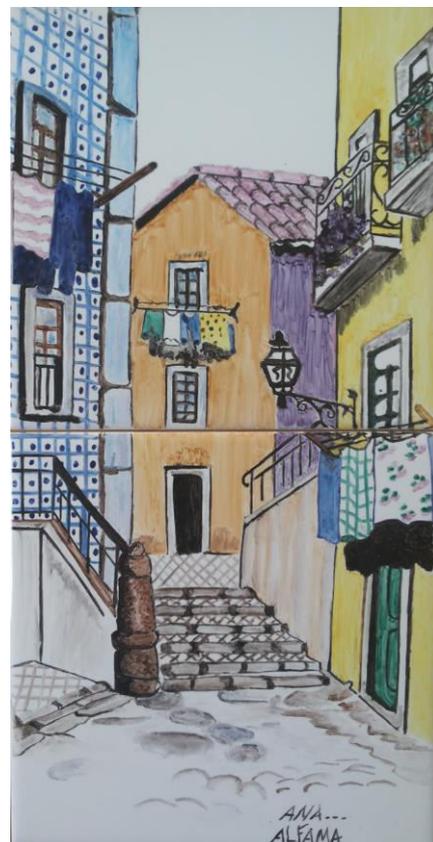


Figure 2. Distribution of participants in regard to region

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Cover: is a work of Ana Paula de Oliveira Campos, daughter of Portuguese, was born in Niterói on 25 January 1971. In 1980 he moved to the city of Povoá de Varzim, Portugal, with the family. Made course of decorative arts, currently dedicated to an old passion, Portuguese tiles.

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