



## ***Symposium CC : University Teaching and Outreach in Materials Science and Engineering***

### **Scope of the Symposium**

The articulation between the scientific knowledge in the formation of the professional citizen and the partnership between the sectors of society has relevant impacts on social and economic development. Considering that the training process comes from learning in the classroom and other spaces, such as the community, teaching should also be based on social and active participation. Currently, undergraduate courses at Brazilian federal universities imminently need to implement the curricular outreach activities in the academic curriculum, according to the goal 12.7 of the Law 13.005 (PNE), of June 25, 2014, ensuring at least 10% ( ten percent) of the total curricular credits required for graduation in university outreach programs and projects, orienting their action, primarily, to areas of high social relevance. The curricularization of outreach activities is still very stigmatized by many professors who often do not envision ways to perform them due to existing gaps, making it essential to look at this aspect to associate theory with practice, and arouse the motivation of students. In this sense, the purpose of this symposium is to bring together the academical three-pillars of the university: teaching, research, and outreach, enabling the construction of a space for dialogue for professors to share their experiences in teaching and outreach activities in the chemistry, physics, mathematics, biological sciences, and engineering with emphasis on materials.

### **Abstracts will be solicited in (but not limited to) the following areas**

- *Teaching for social change and/or social awareness*
- *Tools for teaching*
- *Web in learning*
- *Relationship between Society/Industry/University*
- *Social Impact of Technology-driven Education*
- *Strategy and development an Extension work*
- *Interdisciplinarity*
- *Materials and the Environment*
- *Curriculum Development*

### **Tentative list of invited speakers (To be confirmed)**

**Gerson de Souza Mol** (*Universidade de Brasilia -IQ* ) **Ivanildo Jos da Silva Junior** (*Universidade Federal do Cear - DEQ*) **Rui Manoel de Bastos Vieira** (*Universidade Federal de So Paulo - DCET*) **Simone Meister Sommer Bilessimo** (*Universidade Federal de Santa Catarina ? UFSC*) **Tatiana Martelli Mazzo** (*Universidade Federal de So Paulo, Instituto do Mar - Campus Baixada Santista*) **Vanderlei Bagnato** (*Universidade de So Paulo Instituto de Fsica de So Carlos, Departamento de Fsica e Cincia dos Materiais*) .

### **Symposium Organizers**

**Classius Ferreira da Silva** (*Universidade Federal de So Paulo*) **Ana Valria Santos de Loureno** (*Universidade Federal de So Paulo - DQ*) **Lucinia Ferreira Ceridrio** (*Universidade Federal de So Paulo - DQ*) **Julio Ricardo Sambrano** (*Universidade Estadual Paulista*) .

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