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***Ab initio* design of structural materials**

FEBRUARY 14-15, 2003
Ångströmlaboratoriet, Uppsala, Sweden

CALL FOR PAPERS

A start-up meeting of Work Group 15 “*Ab initio* design of structural materials” (<http://psi-k.dl.ac.uk/proposal/WG15.htm>) of a new ESF Programme “Towards atomistic materials design” (Psi-k) will take place in Uppsala, Sweden, February 14-15, 2003.

The main question of this workshop is “What is *ab initio* design of structural materials?” Particular examples of applications of the first-principles electronic theory for the investigations of technological materials and/or problems within materials sciences relevant for the industry will be presented and discussed. Moreover, we will discuss in details possibilities to combine *ab initio* calculations with phenomenological schemes, because currently this combination seems to be the most efficient way to solving problems for highly complex technological materials. Speakers are encouraged to spend some time on the issue regarding the usefulness of the obtained results for the customers of their research. They are also encouraged to communicate basic contents of the works so that the audience can pick up ideas for potential joint work. The workshop aims to provide a possibility for discussions between participants regarding future bilateral collaboration and /or teambuilding.

Preliminary list of Invited Speakers include Antonis N. Andriotis (Greece), Thomas Bligaard (Denmark), Michele Catti (Italy), H. Dreysse (France), H. Ebert (Germany), O. Eriksson (Sweden), Adam Kiejna (Poland), Janos Kollar (Hungary), A. Lichtenstein (The Netherlands), Juan J. Novoa (Spain), Nicolas Papanicolaou (Greece), Krzysztof Parlinski (Poland), Alain Pasturel (France), Anthony T. Paxton (UK), Hariton Polatoglou (Greece), A. V. Ruban (Denmark), S. I. Simak (Sweden), V. S. Stepanyuk (Germany), I. Turek (Czech Republic), Yu.Kh.Vekilov (Russia), Levente Vitos (Hungary), Perla Wahnón (Spain), and Rudolf Zeller (Germany). Preliminary programme for the workshop can be found at <http://www.fysik4.fysik.uu.se/> (under Events) and <http://psi-k.dl.ac.uk/proposal/WG15.htm>.

Uppsala is conveniently located just 30 min. from Stockholm International Airport Arlanda with excellent connections to both, the airport and Stockholm. More information about the Ångströmlaboratory can be found at <http://www.fysik.uu.se/english/>. Limited financial support is available for travel and local expenses. Abstracts (maximum 1 A4 page, Word or text format) should be submitted before Jan. 15, 2003 to Igor Abrikosov (Igor.Abrikosov@fysik.uu.se)