

## **W14 - Current Status and Future Considerations for the Development of Skin Toxicology Alternative Methods**

Chairperson(s): G. Frank Gerberick, Procter & Gamble Company, Cincinnati, OH and Ian Kimber, Syngenta, Macclesfield Cheshire, United Kingdom.

### **Endorsed by:**

Dermal Toxicology Specialty Section\*  
Regulatory and Safety Evaluation Specialty Section

The need for alternative approaches and in vitro test methods has never been greater than it is today. The continued development of such approaches and use of validated alternatives test methods is an integral part of toxicology in the 21st century.

Collaboration of researchers and external scientific validation organizations such as ICVAAM and ECVAM that were established to provide a mechanism for alternatives test methods validation test methods spearheaded the way forward. Such efforts have led to significant progress in the replacement of animals, reduction in the number used and refinement of in vivo studies. In addition to scientific considerations, significant regulatory challenges lie ahead with the implementation of the 7th Amendment to the European Union Cosmetics Directive, The European Union Chemicals Policy and the United States program on High Production Volume Chemicals. This workshop will focus on the development of alternative approaches and in vitro methods for the evaluation of cutaneous toxicology. It will include detailed discussion on the use of in vitro/in silico and other alternatives methods/approaches used today for the evaluation of skin irritation skin sensitization and skin penetration. The workshop will be introduced by an overview on the use of alternatives in toxicology today and challenges for the future and will close with placing into context the scientific and regulatory challenges relative to societal expectations.

**Overview of Alternatives in Toxicology: Recent Progress and Future Opportunities**, William S. Stokes, NIEHS, Research Triangle Park, NC.

**Application of Alternatives in the Evaluation of Skin Irritation**, David A. Basketter, SEAC, Unilever, Sharnbrook, United Kingdom.

**Challenges in Development of Alternative Methods to Evaluate Skin Sensitization**, G. Frank Gerberick, Procter and Gamble Co., Cincinnati, OH.

**Skin Penetration: Current and Future Directions in the Use of Alternative Methods**, Robert Bronaugh, U.S. FDA, Laurel, MD.

**Societal Expectations on the Use of Alternatives for the Protection of Animals and Humans**, Alan M. Goldberg, Johns Hopkins University, Baltimore, MD.