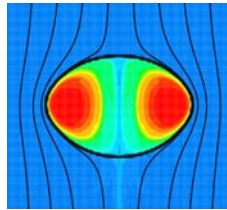


**Workshop on Solidification and Melting in 12th Biennial Computational  
Techniques and Applications Conference CTAC 2004**  
(<http://www.conferences.unimelb.edu.au/CTAC2004>)



**The University of Melbourne  
Melbourne, 27 September - 1 October 2004**



## Workshop presentation

Modelling melting and solidification processes is a challenging problem due to the complexity of the coupled heat transfer and fluid flow phenomena, the flow instabilities, the multi-scales and the moving solid/liquid interfaces.

Phase change problems have received considerable research attention over the last two decades. Significant contributions have been made from both the computational fluid dynamics (CFD) and the computational heat transfer (CHT) communities. Numerical methods for fixed grids and for moving grids have been developed with increasing accuracy and performance. But fundamental aspects of melting and solidification problems as well as many applications still elude modelling.

The objective of this symposium is to discuss recent developments on the numerical modelling of solid/liquid phase change problems and its applications with emphasis on heat and mass transfer at the interface. The symposium will be an opportunity to present the current state of the art in the area and to identify key future research directions.

This will provide an excellent opportunity for the interaction of the French and Australian scientific communities on the application of CFD and Applied Mathematics to heat and mass transfer problems.

### Contact

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