

Report to APDIC – UK 2023

Andy Watson

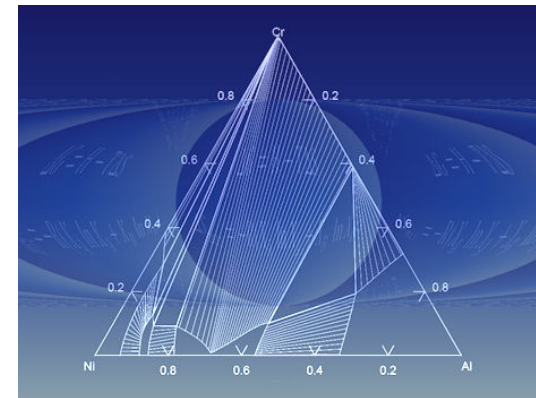
Technical Champion for Materials Chemistry

*IOM3 Materials Processing and Characterisation
Group*

**Materials
Characterisation &
Properties Group**

I.M3

Institute for Materials, Minerals and Mining



Developments - 2021-2022

- Pre-April 2022

- IOM3 had 40+ *Technical Committees*
 - Materials Chemistry Committee (Phase Diagram Committee)
 - ~25 *active members* →

- Post-April 2022

- Reduced to 20 *Technical Community Groups*
 - ~~Materials Chemistry Committee~~
 - *Materials Characterisation and Properties Group*
 - includes the former IOM3 Technical Community groups: Materials Science & Technology, Materials Failure Investigation, Materials Chemistry, Nano, Smart Materials & Systems, and Structure & Properties of Materials.
 - *Materials Chemistry represented by Technical Champion*

MCC membership 2021

		<i>Institution</i>
Tim	Chart	Chart associates
Kathy	Christofidou (vice)	University of Sheffield
Alan	Dinsdale	Hampton Thermodynamics/
George	Chen	The University of Nottingham
Derek	Fray*	University of Cambridge
John	Gisby	Hampton Thermodynamics
Chris	Gourlay	Imperial College
Duncan	Gregory	University of Glasgow
Girish	Kale	University of Leeds
Mudith	Karunaratne	Sri Lanka Institute of Information
Hajime	Kinoshita	University of Sheffield
Richard	Longbottom	British Steel
Rosie	Mellor	University of Cambridge
Simon	Middleburgh	Bangor University
Stuart	Mucklejohn	Ceravision Ltd
Lewis	Owen	University of Sheffield
David	Parfitt	Coventry University
Ed	Pickering	University of Manchester
Duncan	Putman	Rolls Royce Plc
Michael	Rushton	Bangor University
Begoña	Santillana	Tata Steel
Carsten	Schwandt*	University of Cambridge
Andrew	Scott (sec)	University of Leeds
Howard	Stone	University of Cambridge
Pratheek	Shanthraj	University of Manchester
Guosheng	Shao*	Ex-University of Bolton
Howard	Stone	University of Cambridge
Mark	Tyrer	Collegium Basilea
Claire	Utton	University of Sheffield
Nils	Warnken	University of Birmingham
Andy	Watson (chair)	Hampton Thermodynamics
Shaowei	Zhang	University of Exeter

Developments - 2023

- *New Materials Chemistry Group*
 - Subgroup of *Materials Characterisation and Properties Group*
 - *Technical Champion will represent this subgroup on the MCPG board*
- Limited support from IOM3
 - Dedicated webpage within IOM3 site
 - Content
 - Data, publications conference booklets.....
 - *No support for face-to-face meetings.*
 - *But is an improvement over the situation in 2022!*

The Future....

- Article in *Materials World* to promote experimental thermodynamics
 - <https://www.iom3.org/resource/getting-behind-experimental-thermodynamics.html>
- Recreate the network.
 - 'Committee' required to run the subgroup.
 - Regular online scientific meetings
 - Reinstate AToMS (*Annual Thermodynamics of Materials Symposium*)
 - Reinstate the Hume-Rothery seminar