

Adhésion du GdR à l'APDIC

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Qu'est-ce que l'APDIC ?



Alloy Phase Diagram International Commission

APDIC is a council of members who maintain major phase diagram activities.

The APDIC members perform their individual programs independently and meet at APDIC meetings to exchange and coordinate their activities.

APDIC is a non-profit organization, operating through its annual meetings.

APDIC Chairman: Prof. Gabriele Cacciamani

<http://www.apdic.info/>

Foundation

Formed in 1986

Mission

- Coordinate the overall objectives for members' programs and publications
- Establish assessment priorities
- Coordinate activities among members to reduce duplication of effort
- Promote quality standards for phase diagram evaluations
- Assist effective dissemination of data arising
- Promote the application of phase diagrams in industry and academia
- Advance evaluation and assessment programs world wide

Membership

18 member organizations involving 26 countries

Achievements

Over 50 volumes published on binary and ternary alloy systems, by APDIC members such as:

ASM International

MSI, Materials Science International Services

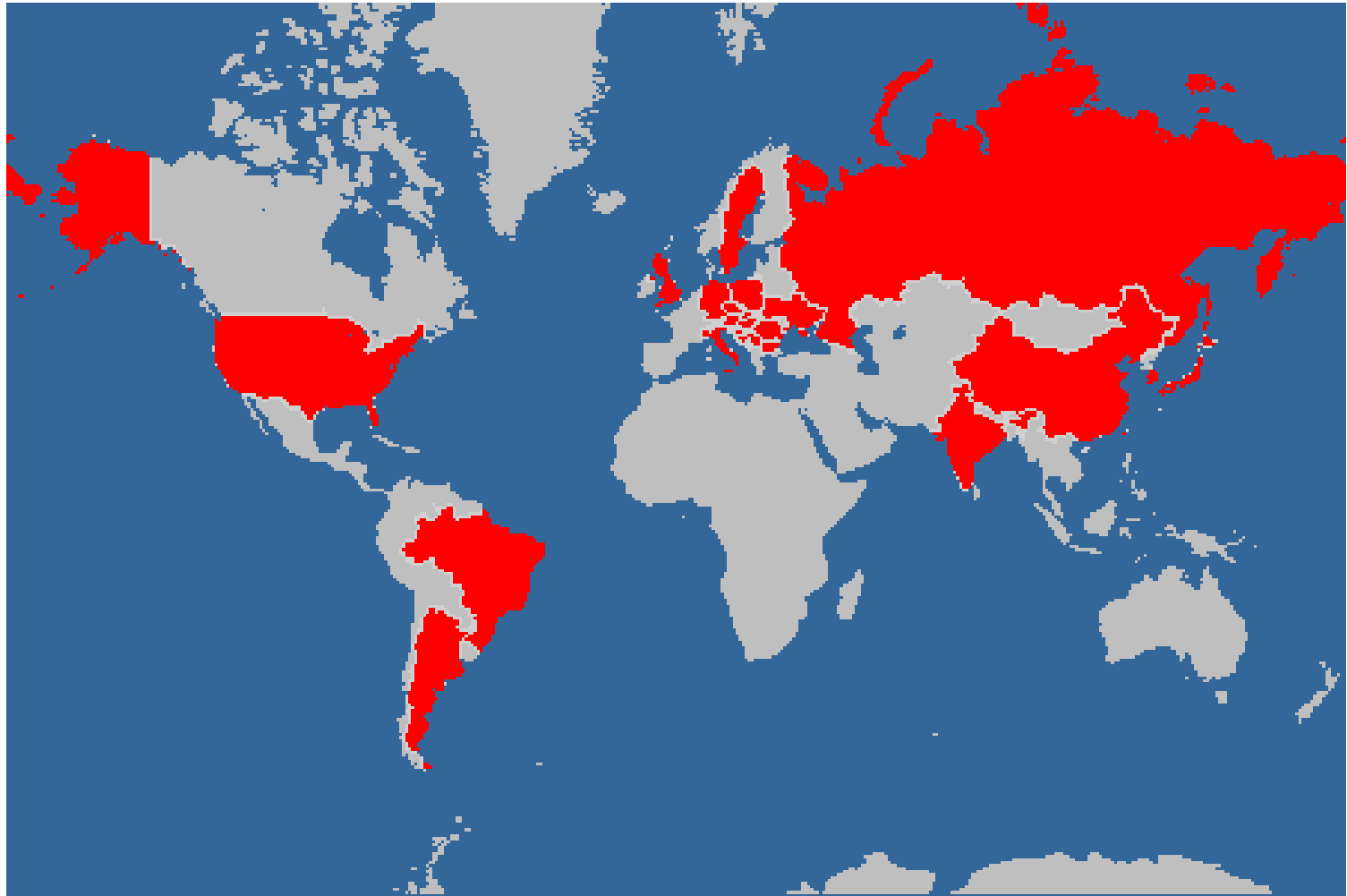
IIoM, The Indian Institute of Metals

IoM3, The Institute of Materials, Minerals & Mining

MSIport.com, a web-based global research platform for the critical evaluation of binary and ternary systems

Membres

- Argentine Committee for Phase Diagrams, **Argentina**
- ASM International, **USA**
- Associated Phase Diagram and Thermodynamics Committee (**Poland, Bosnia&Herzegovina, Bulgaria, Croatia, Czech Republic, Hungary, Montenegro, Romania, Serbia, Slovenia, Slovakia**)
- Brazilian Committee for Phase Diagrams of Materials, **Brasil**
- Chinese Phase Diagram Committee, **China**
- **Groupe de Thermodynamique et Diagrammes de Phases, France**
- Deutsche Gesellschaft für Materialkunde, Germany, **Austria**
- The Indian Institute of Metals, **India**
- Department of Chemistry, University of Genova, **Italy**
- Japanese Committee for Alloy Phase Diagrams, **Japan**
- Korean Committee of Thermodynamics and Phase Equilibria, **Korea**
- Materials Science International Services, **Germany**
- The Baikov Institute of Metallurgy, **Russia**
- National Committee of Russia on Thermal Analysis and Calorimetry, **Russia**
- The Royal Institute of Technology, **Sweden**
- Phase Diagrams and Thermodynamics Committee of the Materials Research Society of **Taiwan**
- The Institute of Materials, Minerals and Mining, **UK**
- Ukrainian Phase Diagrams and Thermodynamics Commission, **Ukraine**



Activités

- APDIC meeting
- World Round Robin Seminar
 - "PHASE DIAGRAMS AS A TOOL FOR EFFICIENT MATERIALS DESIGN"
11-14th February 2018
Castle Ringberg, Germany
 - "EXPERIMENTAL AND COMPUTATIONAL METHODS ON MATERIALS DESIGN"
3-7th July 2016
Moscow, Russia
 - "PHASE EQUILIBRIA: MATERIALS FOR THE FUTURE"
Monday 25th June 2012
London, UK
 - "PHASE DIAGRAMS FOR ENERGY SAVING"
21st -23rd March 2010
Université Montpellier 2, MONTPELLIER, France
- Reports
- Awards
 - best paper award
 - Industrial award

Past situation

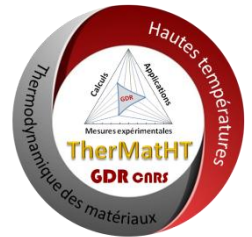
- the Groupe de Thermodynamique et Diagrammes de Phase used to be the formal french member to the APDIC
- it was lead by Bernard Legendre, then Himo Ansara, then Jean-Claude Tédénac
- it was connected to the JEEP meeting an annual french meeting of people interested in phase equilibrium both at
 - high temperature (alloys, ceramics)
 - low temperature (organics, salts)

Changes

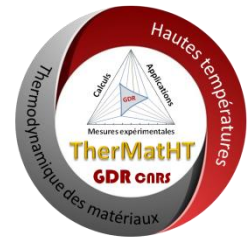
- the leaders are no longer active
- the person at the head of the JEEP is no longer specialist of alloys but rather of phase diagrams of organic compounds and drugs
- the people from the inorganic/high temperature community felt the need to structure themselves in a separate group

Present situation

- the GdR TherMatHT was created January 1, 2013
- at the initiative of Jacques Rogez (Marseille), Christian Chatillon and Alex Pisch (Grenoble)
- it has just been renewed up to 2021
- GdR is for Groupement de Recherche (Research Network). It is a structure labeled by the CNRS
- TherMatHT stands for: Thermodynamics of Materials at Temperature



Present situation



- it has a website <http://thermo-sci.fr/>
- director: Olivier Dezellus (Lyon) – deputy director: Ioana Nuta (Grenoble)
- the french groups having phase diagram activities in the field of alloys and ceramics are members of this GdR
- the scientific activities are around
 - thermodynamic data measurement
 - phase diagram determination
 - calculation and modelling
- it has organized two summer schools on the 'thermodynamic data from acquisition to utilization'

Present situation

- adhésion du GdR TherMatHT à l'APDIC
- paiement cotisation
- JMJ représentant français à l'APDIC meeting
- tâche 1 : rapport sur les activités françaises en matière de diagrammes de phases
- tâche 2 : sélection article pour APDIC best paper award