

Thermochemical Database (TDB) Project course: *Thermodynamic data collection and assessment*

15- 16 November 2022 15:00-18:00 (CET / Paris time) Location: online

Instructors: Xavier Gaona (KIT-INE, Germany), Don Reed (LANL, USA), Marcus Altmaier (KIT-INE, Germany), Lara Duro (Amphos21, Spain), Barbara Lothenbach (EMPA, Switzerland), and Jesus S. Martinez (OECD/NEA, France)

Preliminary Outline

DAY 1	
Time	Topic
15:00 – 15:10	Introductions (All instructors)
15:10 – 15:30	NEA-TDB - Background and historical viewpoint (Martinez)
15:30 – 16:00	Perspectives - international updates. NEA-TDB reference material and processes (Reed)
16:00 - 16:15	Break and/or discussion of presentations
16:15 – 16:50	Experimental approaches and design (Altmaier)
16:50 – 17:20	Use of thermochemical data tables (Duro)
17:20 – 17:50	NEA-TDB guidelines for ionic strength corrections. Critical review criteria within NEA-TDB (Gaona)

DAY 2	
Time	Topic
15:00 – 15:25	Example of review process with discussion (Gaona)
15:25 – 16:00	Thermodynamic databases for radionuclides building on NEA-TDB. Implementer Perspectives: the NEA-TDB Data in Predicting Repository Performance (Duro)
16:00 – 16:30	Thermodynamic data in the context of cementitious systems: SOAR cement (Lothenbach)
16:30 – 16:45	Break and/or discussion of presentations
16:45 – 17:55	Exercises and examples – Discussion
17:55 – 18:00	Wrap-up and Survey