Thermochemical Database (TDB) Project course:
Thermodynamic data collection and assessment
12-13 November 2020
NEA, Paris (France)

Location: NEA Headquarters, Paris France
Instructors: Marcus Altmaier (KIT/INE), Xavier Gaona (KIT/INE), Maria-Eleni Ragoussi (NEA), Don Reed (LANL), Lara Duro (Amphos21), Barbara Lothenbach (EMPA)

Course Outline, day 1

Time	Topic
9:30 – 10:00	Social time / refreshments
10:00 – 10:15	Introductions (All instructors)
10:15 – 10:45	Perspectives - international updates (Reed)
10:45– 11:15	NEA-TDB - Background and historical viewpoint (Ragoussi)
11:15 – 11:45	Coffee Break (provided)
11:45 – 12:15	NEA-TDB reference material and processes (Reed)
12:15 – 1:00	Experimental approaches and design I (Altmaier)
1:00 – 2:00	Lunch at NEA facilities + coffee (provided)
2:00 – 2:45	Experimental approaches and design II (Altmaier)
2:45 – 3:30	NEA-TDB guidelines for ionic strength corrections. Guided SIT exercise (Gaona)
3:30 – 4:00	Coffee Break (provided)
4:00 – 4:45	Thermodynamic data in the context of cementitious systems (Lothenbach)
4:45 – 5:15	Thermodynamic data in the context of cementitious systems: CEMDATA database (Lothenbach)
7:00	Joint dinner (provided)

Course Outline, day 2

Time	Topic
8:30 – 9:45	Critical review criteria within NEA-TDB: detailed walkthrough of two examples: (Gaona) • stand-alone paper • review in context of several papers
9:45 – 10:45	Practical SIT exercises (Gaona)
10:45 – 11:15	Coffee Break (provided)
11:15 – 12:00	Thermodynamic databases for radionuclides building on NEA-TDB and available modelling codes (Duro)
12:00 – 1:00	Implementer Perspectives: Use of The NEA-TDB Data in Predicting Repository Performance (Duro)
1:00 – 1:10	Wrap-up and feedback questionnaire (Ragoussi)
1:15 – 2:15	Lunch at NEA facilities + coffee (provided)