

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

**18-19 November 2021**  
**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**  
**Course Outline**

<b>DAY 1</b>	
<b>Time</b>	<b>Topic</b>
<b>15:00 – 15:10</b>	Introductions (All instructors)
<b>15:10 – 15:25</b>	NEA-TDB - Background and historical viewpoint (Martinez)
<b>15:25 – 16:00</b>	Perspectives - international updates. NEA-TDB reference material and processes (Reed)
<b>16:00 - 16:15</b>	Break and/or discussion of presentations
<b>16:15 – 16:45</b>	NEA-TDB guidelines for ionic strength corrections. Critical review criteria within NEA-TDB (Gaona)
<b>16:45 – 17:10</b>	Example of review process with discussion (Gaona)
<b>17:10 – 17:45</b>	Thermodynamic databases for radionuclides building on NEA-TDB. Implementer Perspectives: the NEA-TDB Data in Predicting Repository Performance (Duro)

<b>DAY 2</b>	
<b>Time</b>	<b>Topic</b>
<b>15:00 – 15:45</b>	Experimental approaches and design (Altmaier)
<b>15:45 – 16:15</b>	Thermodynamic data in the context of cementitious systems: SOAR cement (Lothenbach)
<b>16:15 – 16:30</b>	Break and/or discussion of presentations
<b>16:30 – 17:30</b>	Exercises and examples – Discussion
<b>17:30 – 18:00</b>	Q&A, wrap-up and feedback questionnaire