



## Problem and Perspective of CO<sub>2</sub> Capture and Storage in Caucasus

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### Work Programme



17-18 October, 2014  
Tbilisi,  
GEORGIA

**Day 1: Friday, October 17**

<b>9:00-9:30</b>	<b>Registration</b>
<b>9:30</b> <b>Greetings:</b>	<b>Welcome ceremony</b> TSU Vice-Rectors for Research – Prof. Merab Eliashvili, Acad. Prof. Tamaz Chelidze - Institute of Geophysics
<b>Morning Session:</b>	<b>Convener: Dr. George Melikadze</b>
<b>Topic 1:</b>	<b>Preliminary Scientific Investigations for CO2 storage</b>
<b>10:00</b>	<b>Dr. Birgit Müller</b> (Petrophysics, KIT) Tectonic Stress and its role in reservoir management.
<b>10:30</b>	<b>Dr. Dietmar Kuhn</b> (KIT) Geochemistry Power generation from hot CO2-waters
<b>11:00</b>	<b>Discussion</b>
<b>11:30-12:00</b>	<b>Coffee-break</b>
<b>12:00</b>	<b>Olga Koerting</b> (KIT)  CO <sub>2</sub> -induced rock alteration in Armenia and Georgia.
<b>12:30</b>	<b>T. Chelidze</b> , T. Matcharashvili, G. Melikadze; (M. Nodia Institute of Geophysics)  Triggering and synchronization of seismicity by weak external forcing
<b>13:00</b>	<b>Discussion</b>
<b>13:30-14:30</b>	<b>Lunch Break</b>
<b>Afternoon Session:</b>	<b>Convener Dr. Birgit Müller</b>
<b>14:30</b>	<b>Scheffzueck, Ch.</b> Strain measurements on altered and not altered rock samples: how neutron diffractometry in Dubna helps Earth Sciences
<b>15:00</b>	<b>George Melikadze</b> (M. Nodia Institute of Geophysics) Composition of natural gases in different geological unit of Georgia
<b>15:30</b>	<b>Discussion</b>
<b>16:00-16:30</b>	<b>Coffee-break</b>
<b>16:30</b>	<b>Michael Sidamonidze</b> (Georgian Oil and Gas Corporation) Carbon Capture and Storage in Georgia
<b>17:00</b>	<b>Nino Kapanadze</b> (M. Nodia Institute of Geophysics) Numerical modeling of Tbilisi geothermal and oil field
<b>17:30</b>	<b>Discussion</b>

<b>Topic 3: Geological/Technological aspects of sequestration and Monitoring</b>	
<b>Morning Session: Convener: Frank Schilling</b>	
<b>9:00</b>	<b>Hektor Babayan</b> , Vigen Goginyan and Petros Tozalakyan CO <sub>2</sub> emitting springs and algae growing for biodiesel production in Armenia
<b>9:30</b>	<b>Constantin Haug</b> , Stefanie Wolf, Aleko Gvencadze, George Melikadze, Hektor Babayan, Arcadi Karakhanian, Birgit Müller Caucasus-CCS: First Slip Tendency Analysis on Faults of the Georgian and Armenian Caucasus.
<b>10:00</b>	<b>Discussion</b>
<b>10:30-11:00</b>	<b>Coffee-break</b>
<b>11:00</b>	<b>Professor Dr. Frank Schilling</b> (Petrophysics, KIT)  Wellbore completion – integrity during the operation phase – abandonment - key issues for underground storage
<b>11:30</b>	<b>Nino Tsereteli</b> (M. Nodia Institute of Geophysics) Regional seismicity, seismic hazard and seismic risk of the territory of Georgia
<b>12:00</b>	<b>Discussion</b>
<b>12:30-14:00</b>	<b>Lunch Break</b>
<b>Afternoon Session: Convener: Tamaz Chelidze</b>	
<b>14:00</b>	<b>Frank Schilling</b> (Petrophysics, KIT) The COBRA-Project : Monitoring Borehole cement alteration under CO <sub>2</sub> and mineralized water influence
<b>14:30</b>	<b>Sophio Vepkhvadze</b> (M. Nodia Institute of Geophysics) Using stable isotope application for assessment pollution probability of drinking water resource in Borjomi area
<b>15:00</b>	<b>Discussion</b>
<b>15:30</b>	<b>Summing up of the conference</b>
<b>16:00</b>	<b>Team Leaders Meeting of CaucasCCS Project</b>