

Symposium – 50th anniversary Oklo natural nuclear reactions

Tuesday 28 June 2022

Salle de Conférence, ISIS, Strasbourg

Special session of the ICHLERA conference, Strasbourg 27-30 June 2022

SESSION OKLO 1: From Natural core breeding to the Oklo discovery - Chair: B. GALL

14:00 – 14:20	<i>F. GAUTHIER-LAFAYE (Strasbourg, France)</i>	The Oklo phenomenon, discovery, first questions, first answers
14:20 – 14:40	<i>J.F. DOZOL (Cadarache, France)</i>	From routine sample measurements in CEA to the Oklo phenomenon
14:40 – 15:00	<i>J.C. NIMAL (Paris, France) *</i>	Historical simulations of Oklo cores
15:00 – 15:20	<i>D. LOUVAT (Paris, France)</i>	Oklo natural analogue of radioactive waste disposal, summary of European Commission projects' results (1991-1999)
15:20 – 15:40	<i>S.E. BENTRIDI (Khemis-Miliana Algeria)</i>	Influence of Initial poisons and clays on the criticality of Oklo natural nuclear reactors
15:40 – 16:10	Coffee Break + Onsite Poster Session	50 th Anniversary drinks

SESSION OKLO 2: From Oklo samples to natural core simulations - Chair: F. GAUTHIER-LAFAYE

16:10 – 16:30	<i>A. EL ALBANI (Poitiers, France)</i>	The Gabonionta: Great Oxidation Event, reactors and Life...
16:30 – 16:50	<i>A. MESHNIK (Washington, USA)</i>	Natural Nuclear Reactors: prediction, search, discovery, operation and implications
16:50 – 17:10	<i>H. HIDAKA (Nagoya, Japan)</i>	Evidences of fast neutron operating in Oklo
17:10 – 17:30	<i>E.D. DAVIS (Kimberley South Africa) *</i>	The Oklo natural fission reactors and dynamical models of dark energy
17:30 – 17:50	<i>B. GALL (Strasbourg, France)</i>	Parallel between natural Oklo cores and industrial reactors operating