

8TH “JOURNEES DES ACTINIDES”

UNIVERSITY OF LIEGE

SART TILMAN

**April 17-18, 1978
Liège (Belgium)**

Revised

8th "JOURNEES DES ACTINIDES"

UNIVERSITY OF LIEGE - SART TILMAN, April 17-18, 1978.

Liège (Belgium).

PROGRAMME

MONDAY, APRIL 17, 1978.

- 09 h.00 Welcoming of the participants and withdrawal of documents in the hall of the new auditoria.
- 09 h.30 Plenary lecture : Actinide heat capacities. The role for Schottky functions.
E.F. WESTRUM, Jr. - University of Michigan, Ann Arbor, Michigan (USA).
- 11 h.45 Etude de l'autodiffusion dans la phase cubique centrée du neptunium.
M. BOIDRON et G. MARBACH - Centre d'Etudes Nucléaires, Fontenay-aux-Roses (France).
- 11 h.00 Break.
- 11 h.20 Optical reflectivity measurements on thorium metal samples.
C. ALVANI and J. NAEGELE - European Institute for Transuranium Elements, Karlsruhe (F.R.G.).
- 11 h.35 Variation of Néel temperature of plutonium carbide as function of carbon concentration.
H.R. HAINES, R.O.A. HALL, J.A. LEE - Atomic Energy Research Establishment, Harwell (U.K.), and
M.S.S. BROOKS, European Institute for Transuranium Elements, Karlsruhe (F.R.G.).
- 11 h.50 Electronic structure and ionicity of actinide oxides.
P. KELLY - European Institute for Transuranium Elements, Karlsruhe (F.R.G.).
- 12 h.05 Band structure and f-electron bandwidths of NaCl structure actinide compounds.
R. ALLEN - European Institute for Transuranium Elements, Karlsruhe (F.R.G.).
- 12 h.20 Discussion.
- 12 h.30 Lunch.
- 14 h.00 Plenary lecture : Uranium(IV) cyclopentadienyl and pyrazol-1-yl borate complexes.
K.W. BAGNALL - University of Manchester (U.K.).
- 15 h.15 Etudes magnétochimiques de complexes d'uranium(IV) : travaux en cours.
E. SOULIE - Centre d'Etudes Nucléaires, Saclay (France) et
B. KANELAKOPOULOS - Kernforschungszentrum Karlsruhe (R.F.A.).

- 15 h.30 Spectroscopie Mössbauer de ^{237}Np créé par désintégration α de ^{241}Am dans quelques composés oxygénés d'américium.
J.M. FRIEDT, R. POINSOT - Centre de Recherches Nucléaires, Strasbourg (France) et
J. REBIZANT - European Institute for Transuranium Elements, Karlsruhe (R.F.A.).
- 15 h.45 Etude préliminaire par E.S.C.A. de composés d'uranium oxydables ou hygroscopiques manipulés en atmosphère inerte.
E. THIBAUT, C. DESBUQUOIT et J. VERBIST - Facultés Universitaires, Namur (Belgique).
- 16 h.00 Discussion.
- 16 h.15 Break.
- 16 h.35 Calculated bulk properties of the actinide metals.
B. JOHANSSON - Försvarets Forskningsanstalt, Stockholm (Sweden).
- 16 h.50 Possibilities of the preparation of single crystals of refractory actinide compounds.
E. BEDNARCZYK, J.L. CALESTANI, J. REBIZANT et J.C. SPIRLET - European Institute for Transuranium Elements, Karlsruhe (F.R.G.).
- 17 h.05 Les perhrénates d'actinides.
J.P. SILVESTRE - Université P. et M. Curie, Paris (France).
- 17 h.20 Etude par thermochromatographie des tétrafluorures d'éléments transuraniens.
J. MERINIS, Y. LEGOUX, B. JOUNIAUX et G. BOUSSIERES - Institut de Physique Nucléaire, Orsay (France).
- 17 h.35 Actinide behaviour in waste glasses.
H. MATZKE - European Institute for Transuranium Elements, Karlsruhe (F.R.G.).
- 17 h.50 Ionic-covalent studies of some neptunium fluoride compounds utilizing X-ray and Mössbauer effect technique.
H. ABAZLI, J. GAL, J. JOVE et M. PAGES - Laboratoire Curie, Paris (France).
- 18 h.05 Etude structurale de composés oxygénés et fluorés d'éléments actinides.
A. COUSSON et A. TABUTEAU - Laboratoire Curie, Paris (France).
- 18 h.20 Discussion.
- 19 h.45 Dinner.

TUESDAY, APRIL 18, 1978.

- 09 h.15 Plenary lecture : Actinide organometallic compounds.
B. KANELAKOPULOS - Kernforschungszentrum Karlsruhe (F.R.G.).
- 10 h.30 On PbFCl type trivalent uranium oxyhalides : UOCl, UOBr and UOI.
Synthesis and magnetic properties.
J.C. LEVET and H. NOEL - Université de Rennes (France).
- 10 h.45 Break.
- 11 h.05 Progress toward the thermophysics of the uranates.
E.F. WESTRUM, Jr. and D. JAKES.
- 11 h.20 L'ion Md^{+} existe-t-il en solution aqueuse ?
F. DAVID, K. SAMHOUN - Institut de Physique Nucléaire, Orsay(France),
R.L. HAHN, G.D. O'KELLEY, J.R. TARRANT et D.E. HOBART - Oak Ridge
National Laboratory, Oak Ridge, Tennessee (USA).
- 11 h.35 Aqueous dibutylphosphate complexes of U(VI), Cr(III), Fe(III) and
Ln(III).
J. RACINOUX, C. MUSIKAS and T. KIKINDAI - Centre d'Etudes Nucléaires,
Fontenay-aux-Roses (France).
- 11 h.50 Complexes aqueux des ions d'actinides et lanthanides trivalents avec
des coordinats azotés.
C. MUSIKAS, C. CUILLERDIER, C. CHACHATTY et M. MARTEAU - Centre
d'Etudes Nucléaires, Fontenay-aux-Roses (France).
- 12 h.05 Etude de la formation de complexes en solution entre le neptunium
et l'acide éthylènediaminetétraacétique.
Z. ZEIDAN et A. BILLON - Centre d'Etudes Nucléaires, Fontenay-aux-
Roses (France).
- 12 h.20 Etude de la formation de complexes de stoechiométrie 1:1 et mixtes
du plutonium(III) avec divers acides aminopolyacétiques.
E. MERCINY - Chimie Analytique et Radiochimie, Université de Liège.
- 12 h.35 Discussion. J.C. SPIRLET New concept of
coordination research
in inorganic chemistry
- 12 h.45 Lunch.

The afternoon of April 18 will be devoted to informal discussions
and to a visit of the Laboratory of Radiochemistry of the University of Liège.

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Please note that the short discussion periods planned after a series of communi-
cations are merely aimed at general remarks or comments. Within his allotted
fifteen minutes each speaker is kindly requested to provide time for specific
questions. The large number of communication makes it imperative that the
time-table be strictly obeyed. All speakers are thanked in advance for their
cooperation.

15h. J.C. spirlet Strong concept in actinide
bonding

8th Journées des Actinides - April 17-18, 1978.

Liège, January 23, 1978.

We have the pleasure to announce that the 8th meeting "Journées des Actinides" will be held at the University of Liège (Sart Tilman) on April 17 and 18, 1978.

The programme will consist of two main lectures on general topics and of a series of communications (10 to 15 minutes) in English or French.

We will do the utmost to concentrate the formal presentation of the talks on one day and a half so as to allow the participants who wish so to leave Liège on April 18 in the afternoon. As far as possible, communications on solid state will be scheduled on April 17 while those dealing with solutions will be planned for April 18 in the morning.

You will have the opportunity of visiting the laboratory of Radiochemistry on April 18, in the afternoon.

We sincerely hope that you will be able to participate to the meeting and we invite you to present a communication on some of your recent research.

In order to insure a proper time-table, we would like to receive your registration form before February 28.

At the beginning of March, we will send you, with the detailed programme, a registration form for the lunches and the dinner of April 17.

For any additional information, please contact the secretarial office of Professor G. Duyckaerts
Laboratoire de Chimie Analytique et Radiochimie - Bât. B6
Université de Liège au Sart Tilman - B 4000 Liège (Belgique).
Tel. : (041) 56.14.10.

The Organizers

G. DUYCKAERTS

J. FUGER