

11JA

11ème JOURNÉES DES ACTINIDES - JESOLO LIDO (Venezia) Italy
MAY 25-27, 1981

PROGRAM-ABSTRACTS LIST OF PARTICIPANTS

J. M. FOURNIER

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11ème JOURNÉES DES ACTINIDES - JESOLO LIDO (Venezia) Italy
MAY 25-27, 1981

The Meeting is sponsored by:

ISTITUTO DI CHIMICA E TECNOLOGIA DEI RADIOELEMENTI DEL C.N.R.
PADOVA (ITALY)

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ti del C.N.R. - PADOVA (ITALY)

Secretaries: M. MAGNABOSCO and P. DESTRO
Istituto di Chimica e Tecnologia dei Radioelemen
ti del C.N.R. - PADOVA (ITALY)

PROGRAMME

MONDAY: MAY 25th, 1981

8.00 - 8.30

BREAKFAST

9.00 - 9.30

WELCOME ADDRESS (PROF. UGO CROATTO)

9.30-10.15

PLENARY LECTURE

L(1)

K.W. BAGNALL : *Trans effects in actinide chemistry.*

CHAIRMAN: D. BROWN

10.15-10.25

(1)

R.D.FISCHER, E.KLÄNE, G.R.LANDGRAF and G.R.SIENEL
Anionic tris(cyclopentadienyl)uranium(IV) complexes: a novel kind of "trans-effect" in organo-actinide chemistry.

10.25-10.35

(2)

F.BILLIAU, G.FOLCHER, H.MARQUET-ELLIS, P.RIGNY and E.SAITO
The reduction of the uranium(IV) cyclo-octatetraene complex. Characterization and properties of the new U^{III} compound.

10.35-10.45

(3)

J.GOFFART
Preparation and properties of some oxygen-donor complexes of indenyl actinides.

10.45-11.05

DISCUSSION

11.05-11.30

BREAK

CHAIRMAN: R. D. FISCHER

11.30-11.40

(4)

K.W.BAGNALL, M.J.PLEWS and D.BROWN
Preparation and characterization of some new uranium(IV), neptunium(IV) and plutonium(IV) cyclopentadienyl complexes.

11.40-11.50

(5)

R.KLENZE, A.H.STOLLENWERK, J.MÜLLER and B.KANELLAKOPULOS
EPR - studies on neptuniumtetracyclopentadienide.

- 11.50-12.00 (6) T.C.TSO, D.BROWN, A.I.JUDGE, J.HOLLOWAY
and J.FUGER
*Preparation and thermochemical properties
of alkali metal uranates(VI) and neptuna-
tes(VI).*
- 12.00-12.10 (7) A.A.PINKERTON, A.E.STOREY, J-M.ZELLWEGER
and D.SCHWARZENBACH
*Preparation, characterization and structures
of some dithiophosphate complexes of
thorium and uranium.*
- 12.10-12.20 (8) A.J.SMITH
*The coordination chemistry of thorium
compounds.*
- 12.20-12.30 (9) W.GRAPE, E.STUMPP and H.D.AMBERGER
*Synthesis, spectroscopic and paramagnetic
resonance investigations of Rubidium hexa-
fluorouranate(V).*
- 12.30-12.50 DISCUSSION
- 13.00 LUNCH
- CHAIRMAN: G. FOLCHER
- 15.00-15.10 (10) G.A.BATTISTON, S.DEGETTO, S.SBRIGNADELLO
and M.FAGGIN
*Preparation and characterization of some
uranyl-pyrazine-2,3,dicarboxylate complexes.*
- 15.10-15.20 (11) D.BROWN, J.A.BERRY and J.A.HOLLOWAY
*Halogen exchange and complexation reactions
of actinide fluorides.*
- 15.20-15.30 (12) A.MARZOTTO
*A ^1H and ^{13}C n.m.r. study on the interaction
of dioxouranium(VI) with imidazole, N-methyl
imidazole and L-histidine.*
- 15.30-15.40 (13) B.GUILLAUME, G.M.BEGUN, R.L.HAHN and A.H.
NARTEN
*Studies of cation-cation complexes of penta-
valent actinides in aqueous perchloric
solutions.*
- 15.40-15.50 (14) R.LUNDQVIST and JIU-FANG LU
*Phosphate complexing of actinide ions in
neutral aqueous solutions.*

- 15.50-16.00 (15) C.MUSIKAS, R.FITOUSSI and D.PATTEE-VIA
LARD-GOUDOU
*Different complexes for trivalent actinide
and lanthanide in the same chemical environ-
ment.*
- 16.00-16.20 DISCUSSION
- 16.20-16.50 BREAK
- CHAIRMAN: R. LUNDQVIST
- 16.50-17.00 (16) L.R.MORSS, J.FUGER and R.G.HAIRE
*Enthalpy of formation of curium dioxide
and curium sesquioxide.*
- 17.00-17.10 (17) F.DAVID and P.DAVID
Hydration of lanthanide and actinide ions.
- 17.10-17.20 (18) C.LADIRAT and C.MADIC
*Rapid scanning spectrophotometric study
of the transient species formed during the
reduction of uranyl ion by hydroxymethane
sulphinat ion (rongalite) in perchlorate
medium.*
- 17.20-17.30 (19) F.WEIGEL, R.FISCHER, D.LAWALDT, G.D.WERNER,
Th.LEHMANN and G.HOFFMANN
*On some phosphates and arsenates of hexa-
valent plutonium and americium.*
- 17.30-17.40 (20) N.W.ALCOCK, M.M.ROBERTS and D.BROWN
*The structure of two actinyl(VI) acid
sulphates.*
- 17.40-17.50 (21) R.G.DENNING, J.O.W.NORRIS, P.J.STONE and
D.BROWN
Spectroscopic studies of the neptunyl ion.
- 17.50-18.00 (22) D.E.FENTON, P.A.VIGATO, U.CASELLATO, R.GRA-
ZIANI and M.VIDALI
*The preparation and crystal structure of
N,N'-bis(salicylidene)-1,5-diamino-3-thia-
pentane-dioxouranium(VI)*
- 18.00-18.20 DISCUSSION
- 20.30 BANQUET

TUESDAY: MAY 26th, 1981

8.00 - 8.30

BREAKFAST

9.00 - 9.45

PLENARY LECTURE

L(2)

R. TROĆ : *Magnetic behaviour of solid solutions based on UP.*

CHAIRMAN: M. PAGÉS

9.45 - 9.55

(23)

A.ZYGMUNT

Structure and magnetic orderings of ternary uranium compounds.

9.55-10.05

(24)

E.SOULIÉ, C.H.DE NOVION and A.BLAISE

Paramagnetisme de l'uranium(+4) dans une solution solide diluée de UO₂ dans ThO₂.

10.05-10.15

(25)

D.DAMIEN and C.H. DE NOVION

Supraconductibilité dans la phase de chevrel a base d'actinide. Np_{1+x}Mo₆Se₈.

10.15-10.35

DISCUSSION

10.35-11.05

BREAK

CHAIRMAN: W. MÜLLER

11.05-11.15

(26)

J.ROSSAT-MIGNOD, S.QUEZEL, P.BURLET, A.BLAISE, J.M.FOURNIER, D.A.DAMIEN and A.WOJAKOWSKI

Magnetic ordering in neptunium diarsenide.

11.15-11.25

(27)

A.DELAPALME, A.BLAISE, J.M.FOURNIER, D.DAMIEN and J.P.CHARVILLAT

Magnetic form factor of Np in NpAs₂.

11.25-11.35

(28)

M.FIEDLER, K.REGGENTIN and W.SCHLABITZ

The magnetic behaviour of U_{1-x}Gd_xAl₂.

11.35-11.45

(29)

W.SUSKI, B.JANUS and A.BLAISE

Magnetic properties of the uranium trichalcogenides.

11.45-11.55

(30)

P.BURLET, S.QUEZEL, J.ROSSAT-MIGNOD, H.BARTHOLIN and O.VOGT

Magnetization and neutron diffraction investigation of the magnetic phase diagram of UAs.

11.55-12.05 (31) R.O.A.HALL, M.J.MORTIMER and G.H.LANDER
Low temperature specific heat of PuP.

12.05-12.25 DISCUSSION

12.40 LUNCH

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14.00 EXCURSION BY BOAT

20.00 DINNER

WEDNESDAY: MAY 27th, 1981

8.00 - 8.30 BREAKFAST

9.00 - 9.45 PLENARY LECTURE

- L(3) J. GAL : *Does the Mössbauer high pressure experiment contribute some new aspects in understanding the counter play between localized and itinerant-electron magnetism in the actinides?*

CHAIRMAN: W. SUSKI

- 9.45 - 9.55 (32) T.THÉVENIN, M.PAGÈS, J.GAL and D.DAMIEN
Mössbauer effect and magnetisation studies of some neptunium chalcogenides.
- 9.55-10.05 (33) E.SIMONI, H.ABLAZI, A.COUSSON and M.PAGÈS
Etude par resonance Mössbauer et susceptibilité magnétique des composés Ba₂MNpO₆.
- 10.05-10.15 (34) A.T.ALDRED, L.KOPROWICZ, J.MULAK, S.WEGLOWSKI and B.WROBEL
A new crystalline phase in the UO₂-SO₃-H₂O system.
- 10.15-10.25 (35) E.F.WESTRUM Jr., R.BURRIEL and E.H.P.CORD-FUNKE
Thermophysics of some UM₃ intermetallics from 5 to 850 K.

10.25-10.45 DISCUSSION

10.45-11.15 BREAK

CHAIRMAN: E.F. WESTRUM Jr.

- 11.15-11.25 (36) J.R.NAEGELE
Recent photoemission studies (UPS/XPS) of NpO₂ and PuO₂.
- 11.25-11.35 (37) J.BRUNNER, M.ERBUDAK and F.HULLIGER
Photoemission from UPS and UAsSe.
- 11.35-11.45 (38) P.DELAMOYE, C.KHAN MALEK, S.HUBERT, J.C. KRUPA, M.GENET and R.GUILLAUMONT
High resolution spectroscopy of U⁴⁺ ion in some thorium and uranium halides.

- 11.45-11.55 (39) U.BENEDICT
The high pressure phase of uranium dioxide.
- 11.55-12.05 (40) HJ. MATZKE
Surface energies of actinide compounds of the fluorite and the rocksalt structure using the herzian indentation method.
- 12.05-12.15 (41) Z.HENKIE, R.MASLANKA, M.KONCZYKOWSKI
Transport properties and pressure effect on resistivity in uranium pnictides with Th₃P₄ structure.

12.15-12.35 DISCUSSION

13.00 LUNCH

CHAIRMAN: B.T.M. WILLIS

- 15.00-15.20 (42) G.V.IONOVA, V.I.SPITSYN, V.G.PERSHINA and V.S.MIRONOV (invited)
Relation of the electronic structure to the lattice distortions and stability for actinide systems.
- 15.20-15.30 (43) J.SCHOENES, M.KÜNG and Z.HENKIE
The role of the 5f electrons in U₃P₄.
- 15.30-15.40 (44) A.WOJAKOWSKI, D.DAMIEN and Y.HERY
Phosphures de protactinium PaP₂ et Pa₃P₄.
- 15.40-15.50 (45) P.DELAMOYE, M.HUSSONNOIS, R. de KOUCHKOSKI and C.ZEYEN
Incommensurate modulated low temperature phase of β-ThBr₄.
- 15.50-16.00 (46) A.BOEUF, J.M.FOURNIER, L.MANES, J.REBIZANT and F.RUSTICHELLI
Neutron diffraction study of ²³⁹PuN.

16.00-16.20 DISCUSSION

16.20-16.50 BREAK

CHAIRMAN: F. RUSTICHELLI

- 16.50-17.00 (47) B.T.M.WILLIS and A.ALBINATI
The thermodynamic properties of uranium dioxide at high temperatures: their study by neutron scattering techniques.

- 17.00-17.10 (48) A. BOEUF, J.M. FOURNIER, L. MANES and F. RUSTICHELLI
Study of a structural phase transition on a UMn_2 single crystal by γ -Ray diffraction.
- 17.10-17.20 (49) M. ERBUDAK and G. RAVANO
Spin dependent electro emission from uranium metal.
- 17.20-17.30 (50) B. McCART, G.H. LANDER and A.T. ALDRED
Structural and magnetic studies of hexagonal Pu_2O_3 .
- 17.30-17.50 DISCUSSION
- 17.50 CONCLUSIONS

AND "ARRIVEDERCI"

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