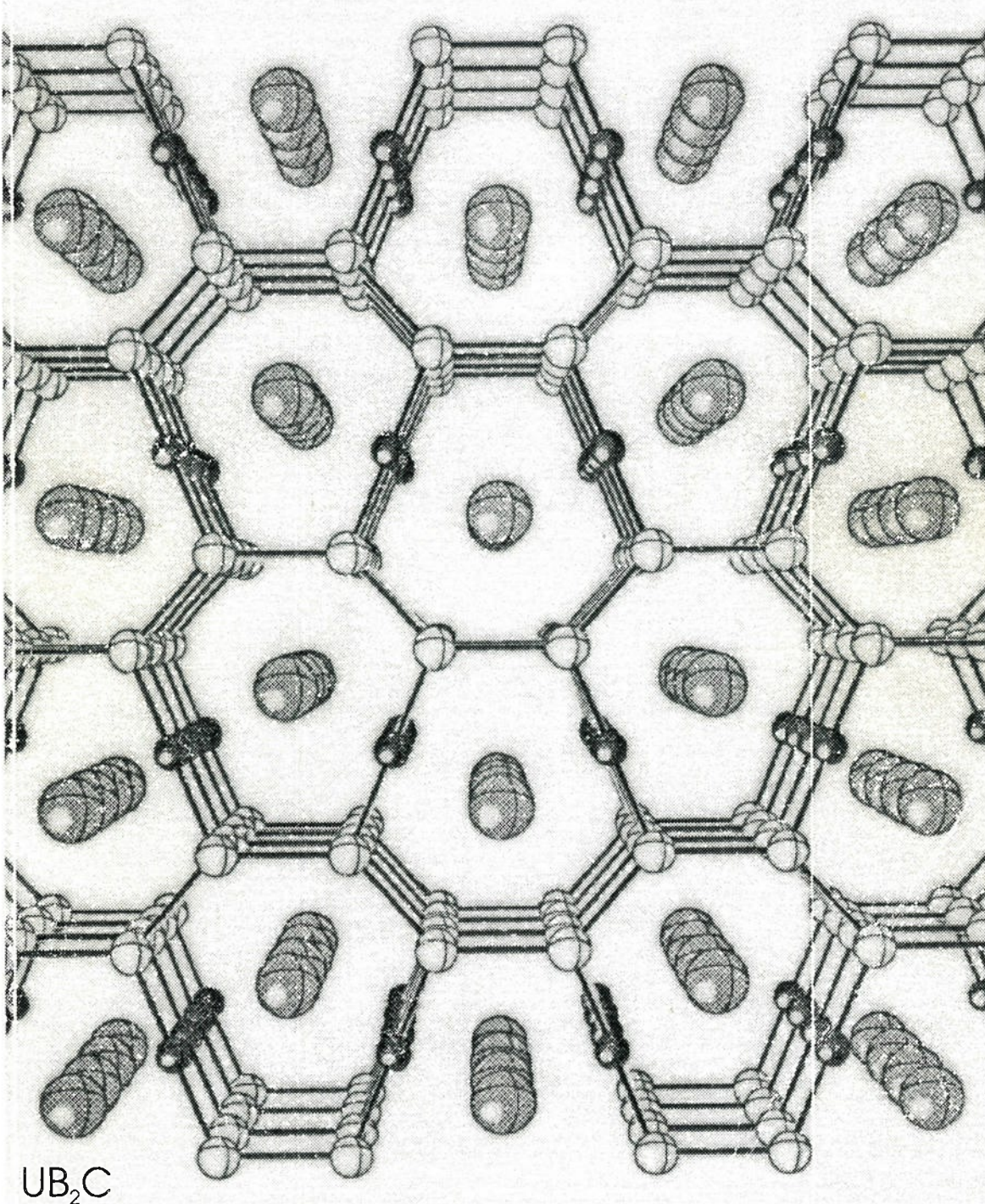
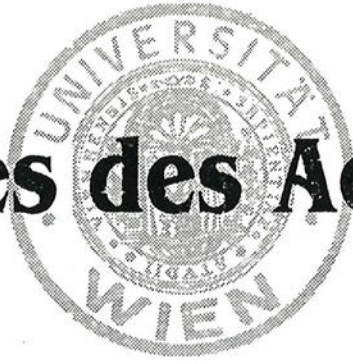


E. Colinau 24^{èmes}

Journées des Actinides



UB₂C

15-19 April 1994, Obergurgl, Austria

Proceedings

The 24^{ièmes} Journées des Actinides was sponsored by:

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Organizing Committee:

P. Rogl (Chairman)

H. Flandorfer (Secretary)

A. Leithe-Jasper

K. Hiebl

Proceedings of the 24ièmes Journées des Actinides

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General Information

Oral Communications:

All speakers are requested to perform their presentation within the arranged time schedule including discussion.

Posters

Session A, Saturday, April 16th, 20³⁰ - 22³⁰.

The posters should be mounted before Saturday 20³⁰. The posters should be dismounted before Monday, April 18th, 16⁰⁰.

Session B, Monday, April 18th, 20³⁰ - 22³⁰.












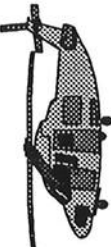











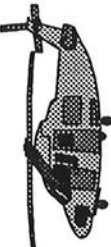

Session B is parallel to Discussions on Single Crystal Growth of Intermetallic Compounds. Session B is continued on Tuesday morning parallel to the morning sessions in the workshop on Single Crystal Growth (Plenary Contributions). Posters for session B should be mounted before Monday 20³⁰. Posters should be dismounted after Tuesday, 12⁰⁰.

Reminder

The conference package covers full board and lodging in Hotel Edelweiss for the time of the Conference starting with a welcome buffet on Friday, April 15th and ending with lunch on Tuesday, April 19th. It furthermore includes the Conference fee as well as the galadiner. The package, however, does not include hotel extras. Beverages taken during the meals are not included. Additional accommodation and meals are at the expense of the participants and have to be booked directly with the hotel.

Conference Program

24^{èmes} Journées des Actinides

Friday, April 15 th	Saturday, April 16 th	Sunday, April 17 th	Monday, April 18 th	Tuesday, April 19 th
   ARRIVAL	8 ¹⁵ -8 ³⁰ Welcome Address 8 ³⁰ -10 ²⁰ Session 1  10 ²⁰ -10 ⁴⁵ Session 2 10 ⁴⁵ -12 ⁰⁰ Lunch 12 ⁰⁰ Discussion 14 ⁰⁰ -17 ⁰⁰ Session 3	8 ³⁰ -10 ³⁰ Session 4  10 ³⁰ -11 ⁰⁰ Session 5 11 ⁰⁰ -12 ⁰⁰ Lunch 12 ⁰⁰ Discussion 14 ⁰⁰ -17 ⁰⁰ Session 6 17 ³⁰ -18 ³⁰ Gala Dinner 19 ⁰⁰ Dinner	9 ⁰⁰ -10 ³⁰ Session 7  10 ³⁰ -11 ⁰⁰ Session 8 11 ⁰⁰ -12 ⁰⁰ Lunch 12 ⁰⁰ Discussion 14 ⁰⁰ -17 ⁰⁰ Opening of Workshop on Single Crystal Growth 17 ³⁰ -17 ⁵⁰ H. Wenzl Growth of Intermetallic Compounds in Single Crystal Form Welcome Address by the Industriellenvereinigung Tirol  Buffet 18 ⁰⁰ -18 ⁵⁰ Discussion 18 ⁵⁰ -19 ⁰⁰ Discussion 19 ⁰⁰ -20 ³⁰ Poster - Session B 20 ³⁰ -22 ³⁰ Poster - Session B	8 ⁰⁰ -12 ⁰⁰ Workshop on Single Crystal Growth 8 ⁰⁰ -9 ⁵⁰ Morning Session 1  9 ⁵⁰ -10 ¹⁰ Morning Session 2 10 ¹⁰ -11 ⁰⁰ Plenary Discussion 11 ⁰⁰ -11 ³⁰ Conclusions of Conference and Perspectives  11 ³⁰ -12 ⁰⁰ Lunch 12 ⁰⁰ Closed Session  14 ⁰⁰ -16 ⁰⁰ DEPARTURE   
17 ⁰⁰ -20 ⁰⁰ Registration   20 ⁰⁰ -22 ⁰⁰ Welcome Buffet	8 ¹⁵ -8 ³⁰ Welcome Address 8 ³⁰ -10 ²⁰ Session 1  10 ²⁰ -10 ⁴⁵ Session 2 10 ⁴⁵ -12 ⁰⁰ Lunch 12 ⁰⁰ Discussion 14 ⁰⁰ -17 ⁰⁰ Session 3 17 ³⁰ -18 ³⁰ Dinner 19 ⁰⁰ -20 ³⁰ Dinner 20 ³⁰ -22 ³⁰ Poster - Session A Session A	8 ³⁰ -10 ³⁰ Session 4  10 ³⁰ -11 ⁰⁰ Session 5 11 ⁰⁰ -12 ⁰⁰ Lunch 12 ⁰⁰ Discussion 14 ⁰⁰ -17 ⁰⁰ Session 6 17 ³⁰ -18 ³⁰ Gala Dinner 19 ⁰⁰ Dinner	9 ⁰⁰ -10 ³⁰ Session 7  10 ³⁰ -11 ⁰⁰ Session 8 11 ⁰⁰ -12 ⁰⁰ Lunch 12 ⁰⁰ Discussion 14 ⁰⁰ -17 ⁰⁰ Opening of Workshop on Single Crystal Growth 17 ³⁰ -17 ⁵⁰ H. Wenzl Growth of Intermetallic Compounds in Single Crystal Form Welcome Address by the Industriellenvereinigung Tirol  Buffet 18 ⁰⁰ -18 ⁵⁰ Discussion 18 ⁵⁰ -19 ⁰⁰ Discussion 19 ⁰⁰ -20 ³⁰ Poster - Session B 20 ³⁰ -22 ³⁰ Poster - Session B	8 ⁰⁰ -12 ⁰⁰ Workshop on Single Crystal Growth 8 ⁰⁰ -9 ⁵⁰ Morning Session 1  9 ⁵⁰ -10 ¹⁰ Morning Session 2 10 ¹⁰ -11 ⁰⁰ Plenary Discussion 11 ⁰⁰ -11 ³⁰ Conclusions of Conference and Perspectives  11 ³⁰ -12 ⁰⁰ Lunch 12 ⁰⁰ Closed Session  14 ⁰⁰ -16 ⁰⁰ DEPARTURE   

FRIDAY, APRIL 15th

17.00-20.00 Registration

20.00-22.00 Welcome Buffet

SATURDAY, APRIL 16th

8¹⁵ Welcome Address

8³⁰-10²⁰ SESSION I
Chairman: V. Sechovsky

8³⁰ O1.1 Complementary Information From High-Pressure and Magneto-Optics on Competing Mechanisms of Correlated-Electron Uranium Magnetism
B.R. Cooper, I. Avgin, S.P. Lim and Q.G. Sheng

9⁰⁰ O1.2 Magnetic Anisotropy and Magnetostriction of UFe₁₀Si₂
A.V. Andreev, M.I. Bartashevich, H. Aruga Katori and T. Goto

9³⁰ O1.3 Structure and Magnetic Properties of UMn_xAl_{12-x} Alloys
W. Suski, K. Wochowski, A. Zaleski and T. Mydlarz

10⁰⁰ O1.4 Structural and Magnetic Studies of U-Fe-M (M= Mo, Si) Compounds with ThMn₁₂-Type Structure
A.P. Gonçalves, J.C. Waerenborgh, G. Bonfait, M. Almeida, P. Estrela, M. Godinho and J.C. Spirlet

10²⁰-10⁴⁵ BREAK

10⁴⁵-12⁰⁰

SESSION 2

Chairman: R. Troc

10⁴⁵

O2.1 Crystal Chemistry of Ternary Actinoid Borides and Phosphides

Yu. B. Kuz'ma

11¹⁵

O2.2 Electronic Structure and Bonding Analysis of Actinoid Metal Boron Carbide Compounds

J.-F. Halet

11³⁰

O2.3 Physico-Chemical Properties and Crystal Structure of U (UO₂)(PO₄)₂ in the Light of a Mixed Valence Compound

M. Genet, N. Dacheux, V. Brandel

11⁴⁵

O2.4 NMR Study of Non-Labile Macrocyclic Complexes of Actinides: Th(IV) and U(IV) Chelates of two Polyaza Polycarboxylic Ligands

V. Jaques, V. Pirlet and J.F. Desreux

12⁰⁰

LUNCH

14⁰⁰-17⁰⁰

DISCUSSION ON ACTUAL SUBJECTS

17³⁰-18³⁰

SESSION 3

Chairman: W. Suski

→ 17³⁰

O3.1 Magnetic Properties of the Stannides U₂Ni₂Sn and U₂Pd_{2+x}Sn_{1-x}
F. Mirambet, D. Laffargue, F. Bourée, B. Chevalier, J. Etourneau, L. Fournès and T. Roisnel

- 17⁵⁰ **O3.2 Magnetic Ordering in U₂Pd₂In and U₂Pd₂In**
L. Havela, V. Sechovsky, P. Svoboda, A. Purwanto, R.A. Robinson, H. Nakotte, K. Prokes, F.R. de Boer, A. Seret, J.M. Winand, J. Rebizant and J.C. Spirlet
- 18¹⁰ → **O3.3 Electronic Structure and Magnetism of U₂T₂In (T= Co, Ni, Rh, Pd, Pt) Intermetallics**
M. Divis, M. Richter and H. Eschrig
- 19⁰⁰-20³⁰ **DINNER**
- 20³⁰-22³⁰ **POSTER SESSION A**
- PA.1 High Temperature Phase Transition in Na₂UI₆ by Neutron Powder Diffraction**
K. Maletka, A. Murasik, W. Szczepaniak, H. Rundlöf
- PA.2 Systematics in High Energy Transitions in Lanthanide and Actinide Compounds**
G. Ionova, J.C. Krupa and R. Guillaumont
- PA.3 Covalent Mechanisms of Two-Ion Cooperative Optical Transitions in Tight f-Ion Dimers: Application to CsCdBr₃: Ln³⁺ Up-Conversion System and U₂Cl₁₀ Binuclear Complex**
V.S. Mironov and A.A. Kaminskii
- PA.4 Calorimetric Determination of the Molar Enthalpy of Formation of Hydroxides, Carbonates and Hydroxycarbonates of Lanthanides and Actinides**
L. Merli, B. Lambert, J.Fuger

- PA.5 New Molecules for the Separation of Actinides (III): the Picolinamides**
P.Y. Cordier, N. Condamines, L. Berthon and C. Madic
- PA.6 Reprocessing Cruds: Zirconium (IV) Contribution to their Formation
Dibutylphosphoric Acid Demixion induced by Zirconium (IV) in Nitric
Acid Solutions. Solubility of Zirconium (IV) in HDBP.**
J. Livet and C. Berthon
- PA.7 X-Ray Studie on the Uranyl Benzoate and Butyrate Derivatives**
G. Bombieri, F. Benetollo, P. Herrero and R. M. Rojas
- PA.8 Electron Absorption Spectra Peculiarities of some Solid Np(V)
Compounds**
A.A. Bessonov, N.A. Budantseva, A.M. Fedosseev
- PA.9 Structural Study of UBe_{13}**
M. Braden, A. Cousson and Z. Fisk
- PA.10 The Uranium-Niobium-Silicon System**
T. Le Bihan, P. Rogl and H. Noël
- PA.11 Effect of Rh Doping on the Magnetic Behaviour of URu_2Si_2**
F. Bourdarot, P. Burlet, R. Calemczuc, B. Fåk, P. Lejay, N. Pyka
- PA.12 Orbital Effects on the Magnetic Properties of URu_2Si_2**
P. Monachesi and A. Continenza
- PA.13 Scattering Studies of a Single Crystal of the Heavy Fermion UPd_2Al_3**
L. Paolasini, J.A. Paixão, G.H. Lander, A. Delapalme, P. Burlet and N. Sato
- PA.14 Mössbauer Studies on $NpNi_2Al_3$, $Np_{0.5}U_{0.5}Pd_2Al_3$ and $Np_{0.3}U_{0.7}Pd_2Al_3$**
S. Zwirner, J.C. Waerenborgh, W. Potzel, G.M. Kalvius, J. Rebizant, J.C.
Spirlet, C. Geibel, F. Steglich

PA.15 Electrical Resistivity and Magnetic Susceptibility of NpNi_2Al_3 and NpPd_2Al_3

A. Seret, F. Wastin, E. Bednarczyk, D. Braithwaite, J.C. Waerenborgh, J. Rebizant, J.C. Spirlet, B. Powietzka, B. Kanellakopoulos, S. Zwirner

PA.16 Magnetic Properties of some AnFe_5Al_7 (An= U, Np): Mössbauer and Magnetization Studies

I. Halevy, I. Yaar, E. Arbaboff, S. Fredo, D. Regev, J. Gal, W. Schäfer, G. Will, J. Jove, M. Pages, G.M. Kalvius and W. Potzel

PA.17 The Crystal Structure of $\text{Zr}_3\text{Al}_3\text{C}_5$ and $\text{U}_2\text{Al}_3\text{C}_4$ and their Relation to the Structures of UAl_3C_3 and Al_4C_3

T. M. Gesing and W. Jeitschko

PA.18 Magnetic Properties of the Ternary Uranium-Nickel-Phosphide $\text{U}_3\text{Ni}_{3.34}\text{P}_6$

T. Ebel, W. Jeitschko, M. Reehuis, R. Sonntag and N. Stüßer

PA.19 Quaternary Thorium-Transition Metal-Pnictide-Oxides

J.H. Albering and W. Jeitschko

PA.20 Transport Properties of $\text{PuSb}_{1-x}\text{Te}_x$

M. Amanowicz, J. Rebizant, J.C. Spirlet, O. Vogt

PA.21 Local Order Investigation in Gallium Doped Actinide Alloys using Extended X-Ray Absorption Fine Structure (EXAFS)

B. Deslandes, D. Bazin, P. Faure, C. Tailland

SUNDAY, APRIL 17th

8³⁰-10³⁰

SESSION 4

Chairman: H. Noël

8³⁰

O4.1 Experiments on Multilayers Containing Uranium

G.H. Lander, G.P. Felcher, C. Tang, S. Brown, P. Haycock, W.G. Stirling and T. Plaskett

8⁵⁰

O4.2 Tentative Interpretation Based on the Weiss-Field Theory of Magnetic Measurements on US Single Crystals diluted with nonmagnetic LaS

F. Hulliger, K. Mattenberger and O. Vogt

9¹⁰

O4.3 Magnetic Properties of NpP

F. Bourdarot, M. Amanowicz, P. Burlet, C. Jeandey, J.L. Oddou, J.Rebizant, J.P. Sanchez, J.C. Spirlet and O. Vogt

9³⁰

O4.4 The Electrical Resistance of NpSb under High Pressure

M. Amanowicz, D. Braithwaite, V. Ichas, U. Benedict, J. Rebizant and J.C.Spirlet

9⁵⁰

O4.5 Binuclear f-Element Complexes Containing Ring-Bridged Dicyclopentadienyl Ligands Acting Both in a Chelating and Bridging Mode

G. Paolucci, A. Borsato and S. Formenti

10¹⁰

O4.6 Cation-Cation Interaction in the Crystal Structures of two Neptunium(V) Nitrates

I.A. Charushnikova, M.S. Grigoriev, N.N. Krot, A.I. Yanovskii, Yu.T. Struchkov

10³⁰-11⁰⁰

BREAK

11⁰⁰-12⁰⁰

SESSION 5

Chairman: J.C. Spirlet

11⁰⁰

O5.1 Synthesis and Characterization of Ternary Uranium-Copper Chalcogenides $U_{1+x}Cu_{6+y}X_6$ (X= S, Se, Te)

A. Daoudi and H. Noël

11²⁰

O5.2 Magnetic Form Factor of NpTe

F. Bourdarot, I. Zobkalo, E. Ressouche, J. Schweizer, P. Burlet, J.C. Spirlet, J. Rebizant

11⁴⁰

O5.3 Synchrotron X-Ray Diffraction Study of Actinide Materials at High Pressure: Recet Results

U. Benedict, C. Abraham, J.P. Dancausse, G. Gu, L. Gerward, F. Hulliger, S. Heathman, K. Mattenberger, J. Staun Olsen, J. Otto, O. Vogt, Y.K. Vohra

12⁰⁰

LUNCH

14⁰⁰-17⁰⁰

DISCUSSION

17³⁰-18³⁰

SESSION 6

Chairman: O. Vogt

17³⁰

O6.1 Structural Chemistry of Actinide Compounds: Intermetallic Alloys with „AuCu₃“ Structure

M. Beauvy, J. Larroque

17⁵⁰

O6.2 Mössbauer High Pressure Studies of NpX₃

S. Zwirner, J.C. Waerenborgh, W. Potzel, J.C. Spirlet, J. Rebizant, J. Gal and G.M Kalvius

18¹⁰ **O6.3 Magnetic Properties of NpAl₃ and NpIn₃**
E. Colineau, A. Blaise, P. Burlet, C. Jeandey, J.L. Oddou, J.P.Sanchez, J.
Larroque, J. Rebizant, J.C. Spirlet

19⁰⁰ **GALA DINNER**

MONDAY, APRIL 18th

9⁰⁰-10³⁰ **SESSION 7**
Chairman: L. Havela

9⁰⁰ **O7.1 Energy Gap Vanishing in the Semiconducting Uranium Compounds**
R. Troc, Y. Yuzhelevskii, D. Kaczorowski, D. Badurski and V.H. Tran

9³⁰ **O7.2 Magnetic Phase Diagrams of UNiGa and UNiGe**
V. Sechovsky, L. Havela, P. Svoboda, K. Prokes, H. Nakotte, F.R. de Boer,
A. Purwanto, R.A. Robinson, H. Maletta and A.V. Andreev

10⁰⁰ **O7.3 Magnetism of Cerium and Uranium MTX Compounds**
A. Szytula

10³⁰-11⁰⁰ **BREAK**

11⁰⁰-12⁰⁰ **SESSION 8**
Chairman: P. Burlet

11⁰⁰ **O8.1 Crystal Structure, Magnetic and Electrical Transport Properties of a
Novel Uranium Oxytelluride U₄O₄Te₃**
D. Kaczorowski, R. Troc, L. Shlyk, H. Noël and M. Potel

- 11²⁰ O8.2 Preperation and Refining of Americium and Curium Metal**
J.C. Spirlet, B. Cremer, M. Lebrun, A. Sasahara, T. Inoue
- 11⁴⁰ O8.3 Crystal Field, Quadrupolar and Exchange Interactions in UCu_{1.5}Ga_{2.5} Compound**
Z. Zolnierak and N. Stüßer
- 12⁰⁰ LUNCH**
- 14⁰⁰-17⁰⁰ DISCUSSION**
- 17³⁰ OPENING OF WORKSHOP ON SINGLE CRSTAL GROWTH**
(For details see seperate program)
- 20³⁰-22³⁰ POSTER SESSION B**
(Continued on Tuesday; April 19th, 8⁰⁰-12⁰⁰)

ATTENTION: poster session B is parallel to workshop activities

PB.1 Giant Magnetoresistance in Uranium Compounds

K. Prokes, H. Nakotte, E. Brück, F.R. de Boer, V. Sechovsky and L. Havela

PB.2 Magnetic Phase Diagram of UNiGe

V. Sechovsky, L. Havela, P. Svoboda, K. Prokes, H. Nakotte, F.R. de Boer,
A. Purwanto, R.A. Robinson and H. Maletta

PB.3 Magnetic Phase Transitions in UNiGa

V. Sechovsky, L. Havela, P. Svoboda, A.V. Andreev, P. Burlet, K. Prokes,
H. Nakotte, F.R. de Boer, R.A. Robinson and H. Maletta

PB.4 On the Magnetic Ordering in UCoAl

V.H. Tran, R. Troc, A. Zaleski, T. Roisnel, F. Bourée

PB.5 Neutron Scattering Studies on UFe_4Al_8

J.A. Paixão, A.P. Gonçalves, M. Almeida, G. Bonfait, M. Godinho and P. Burlet

PB.6 $^{57}\text{Mössbauer}$ Effect Examination of the $\text{UFe}_x\text{Al}_{12-x}$ System

F.G. Vagizov, W. Suski, K. Wochowski and H. Drulis

PB.7 The Crystal Structure of U_3AlSi_3 (W_3CoB_3 -Type)

F. Weitzer and P. Rogl

PB.8 Ternary Diborides with Technetium: $(\text{Gd}, \text{An})\text{TcB}_4$ and An_2TcB_6

A. Leithe-Jasper, P.Rogl, P.E. Potter and H.R. Haines

PB.9 Synthesis and Crystal Chemistry of Ternary Intermetallic Compounds

$\text{An}_2\text{T}_2\text{X}$ (An= U, Np; X= In, Sn, Al, Ga; T= Co, Fe, Ir, Ni, Pd, Pt, Rh, Ru)

L.C.J. Pereira, J.M. Winand, F. Wastin, J. Rebizant and J.C. Spirlet

PB.10 The Crystal Structure of $\text{U}_3\text{Co}_4\text{Ge}_7$

R. Pöttgen, B. Chevalier, P. Gravereau, B. Darriet, W. Jeitschko and J. Etourneau

→ **PB.11 Magnetic Properties of $\text{Np}_2\text{T}_2\text{Sn}$ Compounds**

J.L. Oddou, E. Colineau, C. Jeandey, J.P. Sanchez, J. Rebizant and J.C. Spirlet

→ **PB.12 Crystal Structure of $\text{U}_2\text{Pt}_2\text{Sn}$: a new Derivative Version of the Tetragonal U_3Si_2 -Type Structure**

P. Gravereau, F. Mirambet, B. Chevalier, F. Weill, L. Fournès, D. Laffargue and J. Etourneau

PB.13 Perturbed Angular Correlation Analysis of the Magnetic State in the Pseudo-Binary System $\text{U}(\text{In}_{1-x}\text{Sn}_x)_3$

S. Cottenier, A. Toye, M. Rots, J.C. Spirlet and J.M. Winand

PB.14 Electrical Resistance of NpGa₃ under Pressure

V. Ichas, D. Braithwaite, U. Benedict, F. Wastin, A. Moens and J.C. Spirlet

→ **PB.15 Advances in Preparation of Actinide Compounds at ITU Karlsruhe**

E. Bednarczyk, J. Kalbusch, P. Lefebvre, A. Moens, J. Rebizant, C. Rijkeboer, J.C Spirlet, J.C. Waerenborgh, C.T. Walker, F. Wastin and S. Zwirner

PB.16 Chemical Pressure Effect on Neptunium Dihydride in NpOH•NpH_{2-x} Solid Solution: Mössbauer and X-Ray Studies of NpH_{2-x}

J. Gal, I. Halevy, G. Kimmel, D. Brami, S. Fredo, D. Regev, W. Potzel and G.M. Kalvius

**PB.17 Crystal Structure of Uranyl DL-Tartrate Trihydrate
UO₂(C₂H₄O₆)(H₂O)₂•H₂O**

K. Bongaerts, J.-P. Silvestre, A. Spasojevic and Nguyen Quy Dao

PB.18 Nuclear Decay in the ²³⁰U Series Investigated Using Continuous Radiochemical Separations

A. Koua Aka, V. Barci, G. Ardisson, R. Righetti, J. F. Le Du

**PB.19 Synthesis and Crystal Structure of the Novel Ternary Compound
UNi₄Ga₂**

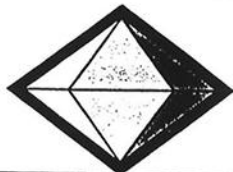
A. Zelinski, V.K. Pecharski, K. Hiebl, Yu. Grin, P. Rogl

PB.20 Neutron Diffraction Studies of some UTM Compounds

V.H. Tran, T. Roisnel, F. Bourée, G. André, R. Troc

TUESDAY, APRIL 19th

- 8⁰⁰-12⁰⁰** **Continuation of Poster Session B, parallel to workshop activities**
- 8⁰⁰-9⁵⁰** **Workshop - Morning Session I**
Chairman: P. Rogl
- 8⁰⁰-8⁵⁰** **„Crucible-Free Crystal Growth Techniques“**
W. Assmus
- 9⁰⁰-9⁵⁰** **„Single Crystal Turbine Blades of Ni-Base Superalloys - The State of Art and the Future“**
U. Paul
- 9⁵⁰-10¹⁰** **BREAK**
- 10¹⁰-11³⁰** **Workshop - Morning Session II**
- 10¹⁰-10⁵⁰** **„Crystal Growth of Uranium Based Binary and Ternary Intermetallics“**
A.A. Menovsky
- 11⁰⁰-11³⁰** **Plenary Workshop Discussion**
- 11³⁰-12⁰⁰** **Conclusions of Conference and Future Perspectives**
- 12⁰⁰** **LUNCH**
- 14⁰⁰-16⁰⁰** **Closed Session - Workshop**



E U R O - C R Y S T

WORKSHOP ON SINGLE CRYSTAL GROWTH OF INTERMETALLIC COMPOUNDS

SPONSORED BY PROJECT EURO-CRYST

Project EURO-CRYST is an Austrian initiative for European collaboration in crystal growth research and technology. EURO-CRYST is directed at the transformation of crystal growth from its present status into a science-intensive crystallization technology which should establish the capability of meeting the complex materials requirements for manufacturing technologies of the 21st century.

Plenary lectures on Tuesday morning will focus on "Growth of Intermetallic Compounds In Single Crystal Form", special attention is given to a discussion of the potential of such single crystals for technological applications; scientific issues which currently prevent their potential from being fully realized will be addressed. The issues raised in four presentations (see schedule below) will be subject of plenary discussion.

Evening Session, Monday, April 18th, 1994

17:30 - 17:50	Prof. A.F. Witt , M.I.T., Boston, <i>Presentation of Project EURO-CRYST</i>
18:00 - 18:50	Prof. H. Wenzl , KFA Jülich, <i>"Growth of Intermetallic Compounds in Single Crystal Form"</i>
18:50 - 19:00	Welcome Address by the Tiroler Industriellenvereinigung
19:00 - 20:30	Buffet
20:30 - 21:30	Discussion
21:30 - 22:30	Informal Discussion

Morning Session, Tuesday, April 19th, 1994

8:00 - 8:50	Prof. W. Assmus , J.W. Goethe Inst., Frankfurt, <i>"Crucible-Free Crystal Growth Techniques"</i>
9:00 - 9:50	Dr. U. Paul , Gießerei Inst., RWTH Aachen <i>"Single Crystal Turbine Blades of Ni - Base Superalloys - The State of Art and the Future"</i>
9:50 - 10:10	Break
10:10 - 10:50	Dr. A. Menovsky , Zeeman Laboratory, Univ. Amsterdam, <i>"Crystal Growth of Uranium Based Binary and Ternary Intermetallics"</i>
11:00 - 11:30	Plenary Discussion
14:00 - 16:00	Closed Session