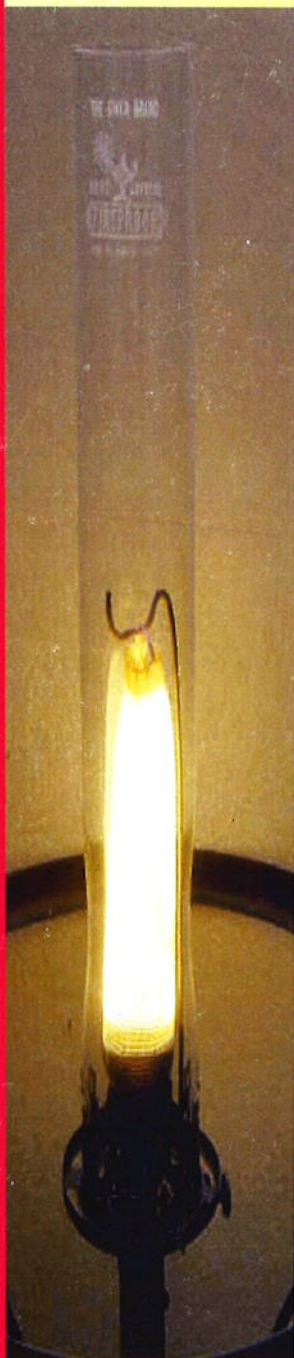


Proceedings

35^{ies}mes

Journées des Actinides



KAISERLICHES PATENTAMT.



PATENTSCHRIFT

N^o 74745

KLASSE 26: GAS-BEREITUNG UND -BELEUCHTUNG.

AUSGEBEN DER 11. APRIL 1894.

DR. CARL AUER VON WELSBACH IN WIEN.

Glühkörper.

Dritter Zusatz zum Patente N^o 39162 vom 23. September 1885.

Patentirt im Deutschen Reiche vom 15. August 1891 ab.

Längste Dauer: 22. September 1900.

Werden Thoroxyd, dessen Verwendung für Glühkörper im Patent Nr. 41945 bereits geschützt ist, und Uranoxyd andererseits in molecularer Mischung in Form der bei dem Patente Nr. 39162 zur Anwendung gelangenden Glühkörper durch einige Zeit geglüht, so vereinigen sich die genannten Körper zu einer eigenthümlichen Verbindung, welche sich durch hohes Lichtemissionsvermögen, wie auch durch große Glühwiderstandsfähigkeit auszeichnet.

Die genannten Eigenschaften erhöhen sich mit der steigenden Reinheit des verwendeten Thoriumpräparates.

Die gebildete Thoroxyd-Uranoxydverbindung ist von gelber Farbe.

Dafs beim oben geschilderten Vorgang tatsächlich eine Verbindung gebildet worden ist, ergibt sich aus der Betrachtung der Lichtemissionskräfte der Componenten für sich.

Völlig reines Thoroxyd strahlt beim Glühen in der Flamme wenig Licht aus, etwas mehr nur im Flammenmantel.

Uranoxyd leuchtet unter gleichen Umständen ebenfalls mit geringer Intensität rothgelb.



Schloss Weikersdorf, Baden, Austria
23rd to 26th April 2005

The 35^{èmes} Journées des Actinides was sponsored by:



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Documents of the front cover by courtesy of the Auer von Welsbach Museum, Althofen, Austria (Dir. R. Adunka)

Organizing Committee:

Peter Rogl
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Martin Rotter
XingQiu Chen

Gerda Rogl (accompanying persons programme)
Institut für Physikalische Chemie, Fakultät für Chemie, Universität Wien

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General Information

Oral Communications: All speakers are kindly requested to strictly keep their allotted presentation time (20 minutes) plus discussion (5 minutes). Overhead and beamer. For transfer of your presentation file to the conference laptop please contact the Conference Secretaries Dr. Andriy Grytsiv or Dr. Martin Rotter at least one day ahead of your session. Please make sure your power point presentation (or any electronic version) is in working condition.

Posters: The Poster session will be held on Sunday Evening, April 24th, 20.00 - 22.00, in "kleiner Rittersaal". Posters (max 123 cm wide x 150 cm high) should be mounted (with pins, no scotch tape please!) well ahead of the poster session. Posters should stay mounted throughout the conference for discussions in breaks etc. but should all be removed on Tuesday before the end of the Conference.

General Reminder: The conference package covers full board (breakfast, lunch, dinner) and lodging in Hotel-Schloß Weikersdorf for the time of the conference starting with a welcome buffet on Saturday evening, April 23rd and ending with a farewell coffee on Tuesday afternoon, April 26th. It furthermore includes the Conference Fee, Proceedings/Abstracts, and the Conference Banquet on Monday evening, April 25th as well as refreshments /snacks during the coffee breaks. All meals include one free drink per person. Coffee after lunches will be available via self-service in the foyer of the lecture hall ("grosser Rittersaal").

Note: There will be no reimbursement of non-consumed services listed above.

BUT:

Beverages ordered during the meals are NOT included.

Additional accommodation, additional meals; pay-TV, telephone, fax and copy service are at the EXPENSE of EACH PARTICIPANT and have to be arranged DIRECTLY with the HOTEL MANAGEMENT

Programme of 35^{èmes} Journées des Actinides

Saturday, April 23rd

- 16.00-20.00 REGISTRATION
20.00-22.30 WELCOME BUFFET

Sunday, April 24th

- 8.30-8.50 WELCOME ADDRESS
- 8.50-10.30 SESSION A, Chalcogenides (4)
Chairman: P. Wachter
- 8.50 The ThAsSe Puzzle *A-01*
R. L. Withers, R. Vincent, F. Hulliger, and J. Schoenes
- 9.15 Three Metal Chalcogenides: One with U, Two "Assisted" by U^I *A-02*
D. Gray, J.-Y. Kim and J. A. Ibers
- 9.40 X High Pressure Resistivity of NpX Compounds (X=S, Se,Te) *A-03*
J.-C. Griveau, J. Rebizant and G. H. Lander
- 10.05 Coexistence of Antiferromagnetic and Spin Glass Behaviour in *A-04*
U₃Rh₃Sb₄
V. H. Tran, Z. Bukowski, R. Troć, J. Stępień-Damm, A. J. Zaleski, D. Badurski, R. Gorzelniak, and C. Sułkowski
- 10.30-11.00 COFFEE-BREAK
- 11.00-12.15 SESSION B, Intermetallics-1 (3)
Chairman: L. Havela
- 11.00 Understanding the Quadrupolar Phases of UPd₃ *B-05*
K. A. McEwen, H. C. Walker, D. F. McMorro, S. Wilkins, and G. A. Gehring
- 11.25 X Antiferromagnetic Transitions in dhcp NpPd₃ *B-06*
H. C. Walker, K. A. McEwen, P. Boulet, E. Colineau, and F. Wastin
- 11.50 Solving Puzzles of UGa₃ *B-07*
D. Kaczorowski, A. Czopnik, T. Plackowski, Z. Kletowski, R. Wawryk and V. Pluzhnikov
- 12.30-14.00 LUNCH-BUFFET
- 14.00-16.05 SESSION C, 115-Compounds-1 (5)
Chairman: V. Sechovsky
- 14.00 Superconducting Pu-Compounds and Their Relation to Cu-Containing High T_c Superconductors *C-08*
P. Wachter
- 14.25 Role of Partially Localized 5f Electrons in PuCoGa₅ and δ-Pu *C-09*
J. L. Sarrao, J. J. Joyce, T. Durakiewicz, J. M. Wills, E. D. Bauer, L. A. Morales, and J. D. Thompson
- 14.50 X Tuning of Unconventional CeMIn₅ and PuMGa₅ Superconductors *C-10*
E. D. Bauer, J. L. Sarrao, J. D. Thompson, L. A. Morales, T. Caldwell, N. J. Curro, F. Wastin, J. Rebizant, J. C. Griveau, P. Javorsky, P. Boulet, E. Colineau, G. H. Lander, and G. R. Stewart

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- 15.15 ✕ **On Structural Tuning of Superconductivity in CeMIn₅ (M = Co, Rh) and PuCoGa₅: High Pressure X-ray Diffraction Studies** *C-11*
P. S. Normile, S. Heathman, M. Idiri, P. Boulet, J. Rebizant, F. Wastin, G. H. Lander, A. Lindbaum, E. D. Bauer, and J. L. Sarrao
- 15.40 ✕ **Effects of Self-irradiation Damages on PuTGa₅ Superconducting Materials** *C-12*
F. Jutier, J.-C. Griveau, E. Colineau, J. Rebizant, P. Boulet, F. Wastin, and E. Simoni
- 16.05-16.30 **COFFEE-BREAK**
- 16.30-18.35 **SESSION D, 115-Compounds-2 (5)**
Chairman: D. Kaczorowski
- 16.30 ✕ **Resonant X-ray Scattering from NpCoGa₅** *D-13*
 S. B. Wilkins, J. A. Paixão, R. A. Caciuffo, N. Bernhoeft, J. Rebizant, and G. H. Lander
- 16.55 ✕ **Magnetic Anisotropy in NpRhGa₅** *D-14*
E. Colineau, F. Wastin and J. Rebizant
- 17.20 **New Heavy-fermion Compounds An₄PdGa₁₂ (An = U, Pu, Np)** *D-15*
 ✕ R. Jardin, E. Colineau, F. Wastin, P. Boulet, J. Rebizant and J.-P. Sanchez
- 17.45 **Positron Annihilation Studies of the f-electron Systems** *D-16*
J. Rusz and M. Biasini
- 18.10 **First Classical RE-like Mixed Valence State Evidence in Uranium Compounds: U₂Ru₂Sn and U₂RuGa₈. The Scaling Properties.** *D-17*
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- 20.00-22.00 **POSTER SESSION**
Chairman: R. Troč

Monday, April 25th

- 8.30-10.35 **SESSION E, Chemistry-1 (5)**
Chairman: S. Obbade
- 8.30 **Actinide Behavior in Materials: Stability and Electronic Properties of an Am-bearing Britholite** *E-18*
M. Bertolus and M. Defranceschi
- 8.55 **Actinide-Doped Murataite Ceramics** *E-19*
S. Stefanovsky, O. Stefanovsky, S. Yudintsev, and B. Nikonov
- 9.20 **Neptunium Speciation (Complexation and Redox Behaviour) in Aqueous Citrate Medium** *E-20*
L. Bonin, E. Ansoborlo and Ph. Moisy
- 9.45 **Speciation of Pu by Capillary Zone Electrophoresis: What Model for Calculating Electrophoretic Mobility?** *E-21*
J. Aupiais, C. Ambard and N. Baglan
- 10.10 **Interactions of Water Vapor with Polycrystalline Uranium Surfaces** *E-22*
N. Shamir, E. Tiferet, S. Zalkind, and M. H. Mintz
- 10.35-11.00 **COFFEE-BREAK**

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- 11.00-12.15 **SESSION F, Intermetallics-3 (3)**
Chairman: K.A. McEwen
- 11.00 **UFe₂ Prepared by Splat Cooling: Magnetic Properties** F-23
 L. Havela, A. P. Gonçalves, K. Miliyanchuk, L. C. J. Pereira, J. Pešicka,
 and E. B. Lopes.
- 11.25 **Crystal Structure and Magnetic Properties of UFe₆Ga₆** F-24
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 Godinho, and M. Almeida
- 11.50 **× Electronic Structure of Actinide Hydrides Studied by Photoelectron Spectroscopy** F-25
 T. Gouder and R. Eloirdi
- 12.30-14.00 **LUNCH-BUFFET**
- 14.00-16.05 **SESSION G, Plutonium-1 (5)**
Chairman: G. Lander
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- 14.25 **Excess Magnetic Susceptibility Arising from Self Damage in α -Pu** G-27
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- 16.30-18.10 **SESSION H, Plutonium-2 (1) and Chemistry-2 (3)**
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- 17.45 **Alkali Uranyl Molybdates or Tungstates: New Structural Architectures** H-34
 S. Yagoubi, S. Obbade, C. Dion, M. Saadi, and F. Abraham
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- 20.00-24.00 **GALA-DINER**

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- 9.00 **Ab initio studies of UMn_2 and $UMn_{2-x}Si_x$** *I-35*
X.-Q. Chen, R. Podloucky and P. Rogl
- 9.25 **Magnetic Properties of $U_2(Fe_{1-x}Co_x)_{13.6}Si_{3.4}$ Single Crystals** *I-36*
A.V. Andreev, Y. Homma, T. Komatsubara, Y. Shiokawa and I. Satoh
- 9.50 **The U-Co-Al System: an Overview on the Crystal-Chemistry and Electronic Properties of the New Ternary Compounds** *I-37*
O. Tougait, R. Troć and H. Noël
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- 10.50-12.05 **SESSION J, Chemistry-Phosphates (3)**
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- 15.10-15.30 **Summary Chemistry: Nicolas Dacheux**
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- 41 **Synthesis and Characterization of PuFe₄Al₈** *P-09*
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35^{ièmes} Journées des Actinides, April 23rd to April 26th, 2005

Saturday, April 23 rd	Sunday, April 24 th	Monday, April 25 th	Tuesday, April 26 th
	07.30 Breakfast 08.00 Late Registration	07.30 Breakfast	Late Breakfast
ARRIVAL	08.30 Welcome Address "grosser Rittersaal" 08.50 Session A	08.30 Session E	09.00 Session I
	10.30 	10.35 	10.15 
	11.00 Session B	11.00 Session F	10.50 Session J
	12.30 Lunch-Bufferet	12.30 Lunch-Bufferet	12.30 Lunch-Bufferet
	14.00 Session C	14.00 Session G	14.00 Session K 14.50 Closing Session L
	16.00 Registration 	16.05 	16.05 
	16.30 Session D	16.30 Session H 18.10 Round Table	17.00 DEPARTURE
20.00 Welcome to Buffet 22.30 	19.00 Dinner 20.00 Poster Session to "kleiner Rittersaal" 22.00	20.00 Galadiner to 24.00	

Accompanying Persons Programme

Saturday, April 23 rd	Sunday, April 24 th	Monday, April 25 th	Tuesday, April 26 th
	07.30 Breakfast 08.30 Welcome Address "grosser Rittersaal"	07.30 Breakfast	Late Breakfast
ARRIVAL	08.50 Meeting in Lobby 09.00 Guided Tour: Baden, Beethovenhaus	09.00 Meeting in Lobby 09.20 Bus to Vienna Sightseeing	09.00 Meeting in Lobby Walk to Dolls & Toys Museum Shopping/Baden
	12.30 Lunch-Bufferet	12.30 Lunch in Trattoria San Stefano	12.30 Lunch-Bufferet
	14.30 Meeting in Lobby Walk to Rollettmuseum Römertherme	13.45 Free time (visit of a museum or a coffee shop or shopping)	
	16.00 Registration		16.00 Farewell 
		18.20 Latest Bus back to Baden	17.00 DEPARTURE
20.00 Welcome Buffet	19.00 Dinner 20.00 Poster Session "kleiner Rittersaal"	20.00 Galadiner	