



## VUVX Conference Series History

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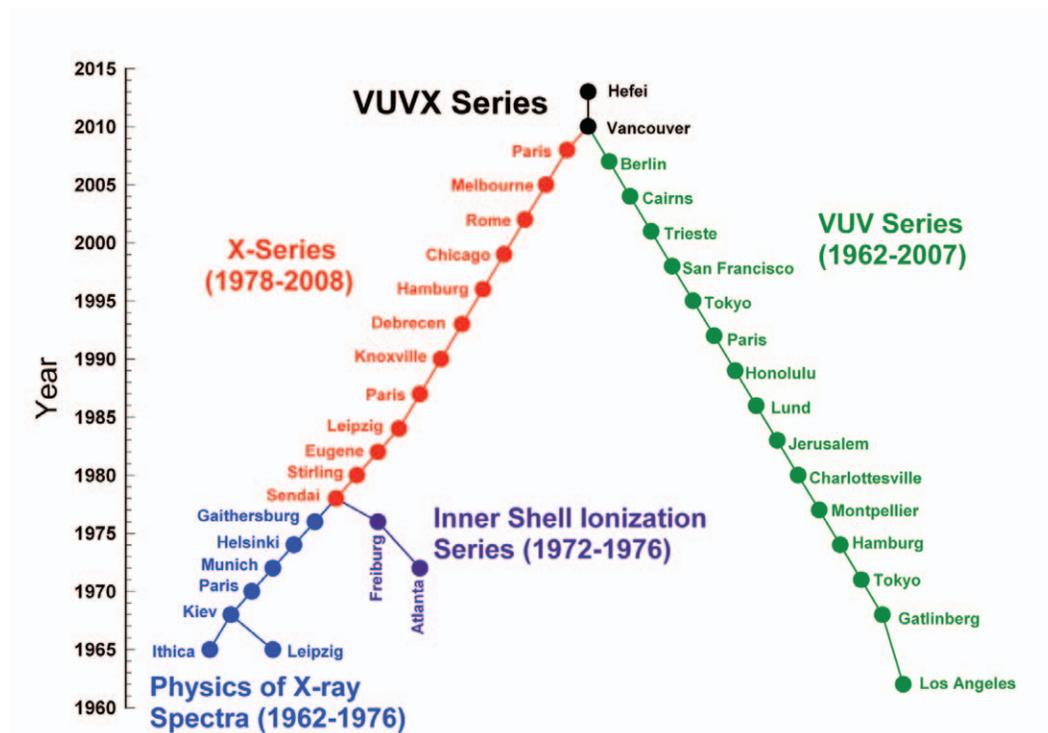
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## Summary

**VUVX2010** – the 37<sup>th</sup> **International Conference on Vacuum Ultraviolet and X-ray Radiation Physics** is the first conference following a merger of two long standing conference series – the **International Conference on Vacuum Ultraviolet Radiation Physics** (last meeting was the 15<sup>th</sup> in that series, VUV-15, held in Berlin, Germany in July 2007) and the **International Conference on X-ray and Inner-shell Processes** (last meeting was the 21<sup>st</sup> in that series, X-08, held in Paris in June 2008).

The **International Conference on X-Ray and Inner-Shell Processes** series results from the merging of the **Physics of X-ray Spectra** conference series, which started in 1965 (two separate meetings held in Ithaca and in Leipzig, in 1965) and the **Inner-shell ionization** conferences, which started in 1972 in Atlanta.



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## Intl. Conference on the Physics of X-Ray Spectra (1965 – 1976)

A history of the X-series (X-ray Spectroscopy, 1965-1976; Inner Shell Physics, 1972-1976; and merged X-series, 1978-onwards) is provided by R.D. Deslattes [1, 2].

### 1965, Physics of X-Ray Spectra, Ithaca, NY, USA

Chairs: Lymann Parratt, Leonard Jossem, Joyce A. Bearden [1-3]  
 Date: June 22-24, 1965  
 Attendees: ~90 attendees, ~40 authors, 9 countries [2]

### 1965, X-ray Spectra and Chemical Binding, Leipzig, East Germany

Chair: Armin Meisel [2]  
 Date: September 1965  
 Proceedings: Armin Meisel, ed., Röntgenspektren und Chemische Bindung [4]  
 Attendees: ~100 attendees, ~55 authors, 11 countries [2]

### 1968, X-ray Spectra and Electronic Structure of Matter, Kiev, Ukraine

Chair: V. V. Nemoshkalenko [2]  
 Date: September 1968  
 Proceedings: V.V. Nemoshkalenko, ed., X-Ray Spectra and Electronic Structure of Matter (X-68) [5]  
 Attendees: ~200 attendees, ~150 authors, 10 countries [2]

### 1970, Processus Electroniques Simple et Multiples du Domaine X et XUV, Paris, France

Chair: Yvette Cauchois [2]  
 Dates: September 21-25, 1970  
 Attendees: ~160 attendees, ~120 authors, ~16 countries [2]

### 1972, Röntgenspektren und Elektronenstruktur der Materie, Munich, Germany

Chairs: A. Faessler and G. Wiech [2]  
 Date: September 18-22, 1972 (Sept 19-23, 1972 according to proceedings) [6]  
 Proceedings: A. Faessler and G. Wiech, eds., Proceedings of the International Symposium: X-ray Spectra and Electronic Structure of Matter [6]  
 Attendees: ~200 attendees, ~140 authors, ~19 countries [2]

### 1974, X-ray Processes in Matter, Otaniemi, Finland

Chair: Teijo Åberg [2]  
 Date: July 28 – August 1, 1974  
 Proceedings: T. Åberg, E. Källne, and R. Manne, eds., Proceedings of the International Conference on X-Ray Processes in Matter [7]  
 Attendees: ~200 attendees, ~290 authors, ~24 countries [2]

### 1976, The Physics of X-ray Spectra, Gaithersburg, MD, USA

Chair: Richard D. Deslattes [8]  
 Date: August 30 – September 2, 1976  
 Proceedings: R.D. Deslattes, ed., International Conference on the Physics of X-ray Spectra [8]  
 Attendees: ~200 attendees, ~315 authors, ~18 countries [2]  
 Abstracts: Short papers in NBS publication [8]  
 Program: Schedule in proceedings [8]

## Inner Shell Ionization Series (1972 – 1976)

### 1972, Intl. Conference on Inner-Shell Ionization Phenomena & Future Applications, Atlanta, GA, USA

Chair: R.W. Fink  
 Date: April 17-22, 1972  
 Proceedings: R.W. Fink, S.T. Manson, J.M. Palms, and P.V. Rao, eds., Proceedings of the International Conference on Inner-Shell Ionization Phenomena and Future Applications [9]  
 Attendees: 232 attendees, 21 countries  
 Abstracts: 141

### 1976, 2<sup>nd</sup> Intl. Conference on Inner-Shell Ionization Phenomena, Freiburg, Germany

Chair: Werner Mehlhorn  
 Date: March 29 – April 2, 1976  
 Proceedings: W. Mehlhorn and R. Brenn, eds., Proceedings of the Second International Conference on Inner Shell Ionization Phenomena [10]  
 Abstracts: 26 invited, 100 other contributions  
 A conference summary by Johannes M. Hansteen points towards a joint Inner shell, X-ray conference in 1980 [11].

## X-ray Physics Series (1978 – 2008)

The **INTERNATIONAL CONFERENCE ON X-RAY AND INNER-SHELL PROCESSES** series results from the merging of the “X-ray Physics” conference series which started in 1965 (separate meetings in Ithaca and in Leipzig) and “Inner-shell Ionization” conferences, which started in 1972 in Atlanta. The following are the conferences in the merged series. These conferences were combined upon the suggestion of the IUPAP, according to Ref. [12].

### 1978, X-ray and XUV Spectroscopy, Sendai, Japan

Chair: Takasi Sagawa [2]  
 Date: August 28 – September 1, 1978  
 Proceedings: T. Sagawa, ed., Proceedings of the International Conference on X-Ray and XUV Spectroscopy [13]  
 Attendees: ~250 attendees, ~360 authors, ~17 countries

### 1980, X-ray Processes and Inner-shell Ionization, Stirling, Scotland

Chairs: D.J. Fabian, H. Kleinpoppen and L.M. Watson [2]  
 Date: August 25-29, 1980  
 Proceedings: D.J. Fabian, H. Kleinpoppen, and L.M. Watson, eds., International Conference on X-ray Processes and Inner Shell Ionization [14]  
 Attendees: ~240 attendees, ~495 authors, ~28 countries

### 1982, X-82, X-ray and Inner Shell Physics, Eugene, OR, USA

Chairs: B. Crasemann and R.D. Deslattes [2]  
 Date: August 23-27, 1982  
 Proceedings: B. Crasemann, ed., AIP Conference Proceedings 94 [15]  
 Attendees: 222 participants, 26 countries [15]

## 1984, X-84, X-ray and Inner Shell Processes in Atoms, Molecules and Solids, Leipzig, Germany

Chairs: Armin Meisel and Dennis Berényi [2]  
 Date: August 20-24, 1984  
 Proceedings: A. Meisel and J. Finster, eds., Proceedings of the X-84 International Conference on X-Ray and Inner-Shell Processes [12]  
 Attendees: 346 attendees, from "28 countries and West Berlin" [12]  
 Abstracts: 8 plenary, 40 keynote, 219 posters  
 Program: Proceedings are the submitted plenary and keynote presentations [12]

## 1987, X-87, X-ray and Inner Shell Processes (XISP), Paris, France

Chairs: Francois J. Wuilleumier and Jean Pierre Briand [16]  
 Date: September 14-18, 1987  
 Proceedings: P. Lagarde, W.J. Wuilleumier, J.P. Briand, eds., Proceedings of the X-Ray and Inner-Shell Processes Conference [16]  
 Attendees: 300 attendees, from 28 countries [16]  
 Abstracts: 260 abstracts [16]  
 Program: Synopsis provided [16]

The proceedings for this conference provide a brief history from Sendai (1976) up to this conference (1987), and the coalescence of the Ithaca/Leipzig series and the Atlanta/Freiburg series. Following up from discussions at X-84 (Leipzig) to move to a 3-year interval for XISP, to coordinate with ICPEAC (International Conference on the Physics of Electronic and Atomic Collisions), ICAP (International Conference on Atomic Physics), VUV (Vacuum Ultraviolet and Radiation Physics) and XISP (X-ray and Inner Shell Physics). The X-87 International Advisory Board adopted basic rules for this series, set a permanent committee and the locations for the next two conferences. The XISP meeting constitution was published in these proceedings [16].

## 1990, X-90, X-ray and Inner Shell Processes, Knoxville, TN, USA

Chairs: Steven T. Manson and Manfred O. Krause  
 Date: July 9-13, 1990  
 Proceedings: T.A. Carlson, S. T. Manson, M.O. Krause, eds., AIP Proceedings 215 [17]  
 Attendees: >200 attendees, 22 countries  
 Summary: M.O. Krause, S. T. Manson, D. J. Pegg, Comments on Atomic and Molecular Physics **26**, 247-252 (1991) [18]

## 1993, X-93, 16<sup>th</sup> Intl. Conference on X-ray and Inner Shell Processes, Debrecen, Hungary

Chair: D. Berényi  
 Date: July 12-16, 1993  
 Proceedings: L. Sarkadi, and D. Berényi, eds., Nuclear Instruments and Methods B, 87, 1994 [19]  
 Attendees: 236 attendees, ~35 countries [1]  
 Abstracts: 200 posters, 50 invited talks

## 1996, X-96, 17<sup>th</sup> Intl. Conference on X-ray and Inner Shell Processes, Hamburg, Germany

Chair: B.F. Sonntag  
 Date: September 9-13, 1996  
 Proceedings: R.L. Johnson, H. Schmidt-Bocking, and B.F. Sonntag, eds., AIP Proceedings 389 [20]  
 Attendees: 305 attendees, 33 countries  
 Abstracts: 316 abstracts

## 1999, X-99, 18<sup>th</sup> Intl. Conference on X-ray and Inner Shell Processes, Chicago, IL, USA

Chair: Donald S. Gemmell

Date: August 23-29, 1999  
 Proceedings: R.W. Dunford, D.S. Gemmell, E.P. Kanter, B. Krässig, S.H. Southworth, and L. Young, eds., AIP Proceedings 506 [21]  
 Attendees: 320 attendees, 35 countries  
 Abstracts: 350 abstracts  
 Website: <http://www.phy.anl.gov/atomic/X99/>  
 R.D. Deslattes provided closing remarks for X-99 [1], updating the history provided in the X-90 proceedings [2]  
 Program: AIP Proceedings, Volume 506 [21]

### 2002, X-02, 19<sup>th</sup> Intl. Conference on X-ray and Inner Shell Processes, Rome, Italy

Chairs: A. Bianconi and A. Marcelli  
 Date: June 24-28, 2002  
 Proceedings: A. Bianconi, A. Marcelli, and N.L. Saini, eds., AIP Conference Proceedings 652 [22]  
 Attendees: 300 attendees, 30 countries  
 Program: <http://www.lnf.infn.it/sis/frascatiseries/Volume32/volume32.pdf>

### 2005, X-05, 20<sup>th</sup> Intl. Conference on X-ray and Inner Shell Processes, Melbourne, Australia

Chair: Frank Larkins  
 Date: July 4-8, 2005  
 Proceedings: C.T. Chantler, ed., Radiation Physics and Chemistry 75(11), 2006, 1431-2104 [23]  
 Attendees: 180 attendees, 18 countries  
 Abstracts: 250 abstracts, 5+20+56 orals, 156 posters  
 Website: <http://chemistry.unimelb.edu.au/news/X05/X05.html>  
 Program: <http://chemistry.unimelb.edu.au/staff/quiney/www/X05/pages/timetable.php>  
 Summary: Chandler *et al.* [24]

### 2008, X-08, 21<sup>st</sup> Intl. Conference on X-ray and Inner Shell Processes, Paris, France

Chair: M. Simon  
 Date: June 22-27, 2008  
 Proceedings: M. Simon, A. Taleb-Ibrahimi, P. Indelicato and S. Carniato, eds., The European Physical Journal Special Topics, 169(1), 2009, 1-248 [25]  
 Attendees: 350 attendees, 46 countries  
 Abstracts: <http://x08.spectro.jussieu.fr/IMG/pdf/BookOfAbstract-2.pdf>  
 Website: <http://x08.spectro.jussieu.fr/>  
 Program: <http://x08.spectro.jussieu.fr/IMG/pdf/BookOfAbstract-2.pdf>

## Vacuum Ultraviolet Radiation Physics Series (1962 – 2007)

T. Ishii provided a history of the VUV science, current up to 1994. [26]

### 1962, VUV-1, 1<sup>st</sup> Intl. Conference on Vacuum Ultraviolet Radiation Physics, Los Angeles, USA

Chair: Gerhard L. Weissler  
 Date: April 16-19, 1962  
 Proceedings: G. Weissler, ed., Journal of Quantitative Spectroscopy and Radiative Transfer, 2, 1962, 315-728 [27]  
 Attendees: 45 speakers

### 1968, VUV-2, 2<sup>nd</sup> Intl. Conference on Vacuum Ultraviolet Radiation Physics, Gatlinberg, TN, USA

Chair: E.T. Arakawa  
 Date: May 1-3, 1968  
 Abstracts: Bulletin of the American Physical Society, 1968, 983-992 [28]

### 1971, VUV-3, 3<sup>rd</sup> Intl. Conference on Vacuum Ultraviolet Radiation Physics, Tokyo, Japan

Chair: T. Sasaki  
 Date: August 30 – September 2, 1971  
 Proceedings: No proceedings, according to Koch *et al.* [29]  
 Program: Y. Nakai, ed., Conference Digest of the 3rd International Conference on Vacuum Ultraviolet Radiation Physics [30]  
 Attendees: 250-300 attendees [31]

### 1974, VUV-4, IV<sup>th</sup> Intl. Conference on Vacuum Ultraviolet Physics, Hamburg, Germany

Chair: R. Haensel  
 Date: July 22-26, 1974  
 Proceedings: E.-E. Koch, R. Haensel, and C. Kunz, eds., Vacuum Ultraviolet Physics: Proceedings of the IV International Conference on Vacuum Ultraviolet Physics. [29]  
 Attendees: >350 attendees

At a special conference session, an honorary doctorate was awarded to Dr. Gerhard Herzberg, former native of the city of Hamburg. [29]

### 1977, VUV-5, V<sup>th</sup> Intl. Conference on Vacuum Ultraviolet Radiation Physics, Montpellier, France

Chair: B. Vodar  
 Date: September 5-9, 1977  
 Proceedings: M.C. Castex, R. Pinchaux and M. Pouey, eds., Journal de Physique Colloques C4, 1978 [32, 33]  
 Attendees: 380 attendees, 25 countries [32]

### 1980, VUV-6, 6<sup>th</sup> Intl. Conference on Vacuum Ultraviolet Radiation Physics, Charlottesville, VA, USA

Chair: R.P. Maddow  
 Date: 1980  
 Proceedings: J.N. Howard, ed., Applied Optics, 19, 1980, 3877-4122. [34]

### 1983, VUV-7, 7<sup>th</sup> Intl. Conference on Vacuum Ultraviolet Radiation Physics, Jerusalem, Israel

Chair: J. Jortner  
 Date: August 8 – 12, 1983  
 Proceedings: A. Weinreb and A. Ron, ed., Annals of the Israel Physical Society 6(1,2), 1983, 1-623 [35]

### 1986, VUV-8, 8<sup>th</sup> Intl. Conference on Vacuum Ultraviolet Radiation Physics, Lund, Sweden

Chair: Lars Hedin  
 Date: April 14-18, 1986  
 Proceedings: P.O. Nilsson and J. Nordgren, eds., Physica Scripta, T17, 1987, 1-239 [36]  
 Attendees: 300 attendees

Abstracts: 229 posters, 49 orals

### 1989, VUV-9, 9<sup>th</sup> Intl. Conference on Vacuum Ultraviolet Radiation Physics, Honolulu, HI, USA

Chair: Charles Fadley  
 Date: July 1989  
 Proceedings: D.A. Shirley, and G. Margaritondo, eds., Physica Scripta T31, 1990, 1-309 [37]  
 Attendees: 396 attendees from 25 countries  
 Abstracts: 400 papers

The conference was briefly summarized by Fadley and Shirley [38] and introduction to the proceedings by Shirley and Margaritondo [37]. The proceedings contain an obituary for Gerhard L. Weissler, who founded the VUV series and the first meeting in Los Angeles.

At its meeting in Honolulu, the International Advisory Board accepted a proposal for VUV10 to be held in Moscow in 1992, with satellite meetings to be arranged in Leningrad. The chair of VUV10 was to be Prof. Leonid Keldysh of the Lebedev Institute in Moscow [38].

### 1992, VUV-10, 10<sup>th</sup> Intl. Conference on Vacuum Ultraviolet Radiation Physics, Paris, France

Chairs: Y. Petroff, Chairman  
 I. Nenner, Vice-chairwoman  
 F.J. Wuilleumier, Vice-chairman  
 Date: July 27-31, 1992  
 Proceedings: F.J. Wuilleumier, Y. Petroff and I. Nenner, eds., 1993 (invited presentations only) [39]  
 Attendees: 545 attendees from 31 countries [40]  
 Abstracts: 7 plenaries, 99 invited and contributed oral presentations, 439 posters [39]  
 There was a discussion of merging the VUVX and the Inner Shell Processes Conference at this conference, and a summary article by P. Lagarde [40].

### 1995, VUV-11, 11<sup>th</sup> Intl. Conference on Vacuum Ultraviolet Radiation Physics, Tokyo, Japan

Chair: T. Ishii  
 Date: August 27-September 1, 1995, Rikkyo University in Tokyo  
 Proceedings: T. Miyahara, Y. Azuma, M. Watanabe, and T. Ishii, eds., Journal of Electron Spectroscopy and Related Phenomena, 1996, 80, 1-557 [41]  
 Attendees: 516 attendees  
 Abstracts: 46 invited, 90 contributed, 311 posters  
 Summary papers by G. Margaritondo [42] and A. Kakizaki [43]

### 1998, VUV-12, 12<sup>th</sup> Intl. Conference on Vacuum Ultraviolet Radiation Physics, San Francisco, CA, USA

Chair: Neville Smith  
 Date: August 2-3, 1998  
 Proceedings: D.W. Lindle, ed., Journal of Electron Spectrosc. Rel. Phen., 101-103 (1999) [44]  
 Attendees: 506 attendees, 36 countries  
 Abstracts: 500 posters, 45 invited talks  
 Website: <http://www.als.lbl.gov/als/vuv12/>  
 Program: <http://www.als.lbl.gov/als/vuv12/program.html>

### 2001, VUV-13, 13<sup>th</sup> Intl. Conference on Vacuum Ultraviolet Radiation Physics, Trieste, Italy

Chair: Massimo Altarelli (Sincrotrone Trieste, Italy)  
 Date: July 23-27, 2001  
 Proceedings: K.C. Prince, M. Kiskinova, and G. Comelli, eds., Surface Reviews and Letters, 2002 [45]  
 Attendees: ~500 attendees, 24 countries

Website: <http://www.elettra.trieste.it/vuv13/>

### 2004, VUV-14, 14<sup>th</sup> Intl. Conference Vacuum Ultraviolet Physics, Cairns, Australia

Chair: Brenton Lewis  
Date: July 19-23, 2004  
Proceedings: A. Kheifets, M. Vos, S.J. Cavanagh, and M. Kono, eds., Journal of Electron Spectroscopy and Related Phenomena, 2005 [46]  
Attendees: 420 attendees, 24 countries  
Website: <http://vuv14.anu.edu.au/>

### 2007, VUV-15, 15<sup>th</sup> Intl. Conference Vacuum Ultraviolet Physics, Berlin, Germany

Chair: Wolfgang Eberhardt  
Date: July 29 – August 3, 2007  
Proceedings: W. Eberhardt and C. Jung, eds., Applied Physics A, 92, 2008, p. 421-510 [47]  
Attendees: 520 attendees, 30 countries  
Abstracts: 89 plenary, invited and oral talks, 450 posters

## International Conference on Vacuum Ultraviolet and X-ray Radiation Physics (2010 - )

### 2010, VUVX2010, 37<sup>th</sup> Intl. Conference on Vacuum Ultraviolet and X-ray Radiation Physics, Vancouver, BC, Canada

Chairs: Adam Hitchcock and Stephen Urquhart  
Date: July 11-16, 2010  
Proceedings: K. T. Leung, ed. Journal of Electron Spectroscopy and Related Phenomena (*this issue*)  
Attendees: 455, from 21 countries  
Abstracts: 85 oral, 380 posters  
Website: [www.vuvx2010.ca](http://www.vuvx2010.ca) ([vuvx2010.usask.ca](http://vuvx2010.usask.ca))

### 2013, VUVX2013, 38<sup>th</sup> Intl. Conference on Vacuum Ultraviolet and X-ray Radiation Physics, Hefei, Anhui, China

Chair: Ziyu Wu  
Date: 2013

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