

*Final Announcement and Programme*



Third Annual Meeting  
of the Scientific Association  
of Swiss Radiation Oncology

*March 4–6, 1999  
at the Paul Scherrer Institute  
Villigen, Switzerland*

## *Dear SASRO-members, dear colleagues and friends*

SASRO is still a young society amongst the numerous medical societies in Switzerland and Europe. The goal at the founding reunion in Bern in 1997 was to create a scientifically relevant, nationally and internationally active and lively community which highlights the importance and efficacy of radiation oncology in the field of cancer treatment. The Third Annual Meeting of the Scientific Association of Swiss Radiation Oncology represents a broad range of medical, biological and physical activities of the Swiss radio-oncology centres. The number of proffered papers and the variety of subjects speaks for the interest in SASRO and in this conference. Our third annual meeting will again be a forum for young researchers as well as for established professionals. In order to encourage our young colleagues to present their work and to reward them for their effort, the scientific committee will give an award for the best proffered papers in medicine, biology and physics submitted by residents or young researchers.

We would like to thank all who contribute to the scientific programme, which reflects the standard of our work and hopefully represents today's state of the art. We would also like to thank the Paul Scherrer Institute which is hosting SASRO III and the members of the Division of Radiation Medicine, who are organising the meeting.

René Mirimanoff, President of SASRO  
Gudrun Goitein, Chairperson of the Local Organising Committee  
Hans Blattmann, Chairman of the Scientific Committee

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## *Scientific Association of Swiss Radiation Oncology SASRO*

**President:** Prof. Dr. R. O. Mirimanoff, Lausanne  
**Secretary:** PD. Dr. S. Bodis, Zürich  
**Treasurer:** PD. Dr. J. Bernier, Bellinzona  
**Executive Committee:** PD. Dr. P. Coucke, Lausanne  
PD. Dr. N. Crompton, PSI  
Prof. Dr. R. Greiner, Bern  
Prof. Dr. J. Kurtz, Genève  
Prof. Dr. U. M. Lütolf, Zürich  
Dr. R. Mini, Bern  
PD Dr. R. Miralbell, Genève  
Dr. W. Seelentag, St. Gallen

## *SASRO III Local Organising Committee at PSI:*

*G. Goitein* (Chair), N. Crompton, B. Rossi (MTRA),  
Members of the Team Radiation Medicine at PSI

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### *Scientific Committee:*

*H. Blattmann*, Paul Scherrer Institute (Chair)

- Medicine:            *P. Thum*, Luzern  
                          *C. v. Briel*, Bern  
                          *G. Goitein*, PSI  
                          *P. Huguenin*, Zürich  
                          *R. Miralbell*, Genève  
                          *M. Notter*, Aarau  
                          *M. Özsahin*, Lausanne
- Biology:            *N. Crompton*, PSI  
                          *S. Bodis*, Zürich  
                          *P. Coucke*, Lausanne
- Physics:            *L. André*, Bern  
                          *L. Cozzi*, Bellinzona  
                          *B. Davis*, Zürich  
                          *E. Egger*, PSI  
                          *M. Goitein*, Boston & Zürich / PSI  
                          *A. Lomax*, PSI  
                          *E. Pedroni*, PSI  
                          *J.-F. Valley*, Lausanne
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### *Industrial Contacts and Sponsors:*

*G. Ries*, St. Gallen

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### *Secretariat:*

Paul Scherrer Institut	
Secretariat Radiation Medicine	Phone: +41 (0)56 310 35 24
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Division of Radiation Medicine	e-mail:
CH-5232 Villigen PSI, Switzerland	radiation.medicine@psi.ch

**During the meeting you can be reached at the above telephone and fax numbers, as well as through the secretariat's e-mail address.**



## General Information:

**Venue:** Auditorium at the Paul Scherrer Institute  
PSI-West, CH-5232 Villigen PSI, Switzerland

**Date:** March 4–6, 1999

**Registration, Fees:** 150.– CHF registration fee for the conference, including lunches and coffee/tea. Daily registration 60.– CHF per single day. MTRAs are invited to join the meeting without paying a registration fee.  
75.– CHF will be charged separately for the conference dinner.

**Accommodation:** **See attachment.** Please contact the hotels in Baden, Brugg and Böttstein directly and mention the blockname SASRO.

**Transportation:** **See attached schedules for trains and buses.** Baden and Brugg can be reached by direct trains from Basel, Bern and Zürich. Coming from Zürich Airport you may have to change in Zürich Main Station. Direct connections from Zürich Airport to Baden/Brugg are limited to certain hours. There are PTT buses connecting the station in Brugg and PSI (and also the hotel in Böttstein. It is the same bus route, just one stop after PSI West, which is your destination for the meeting). During the meeting bus transportation will be organised between the hotels and the places of the social events and PSI. At the end of the meeting on Saturday, additional transportation to the train station in Brugg will be organised. Limited parking for private cars will be available at PSI.

**Social events:** A welcome apéritif will be offered by ELEKTA on Thursday, immediately after the sessions, in the foyer of the PSI-Auditorium.  
On Friday evening, all participants of the meeting are invited to the *Historisches Museum* in the *Landvogteischloss* in Baden. This is a very interesting exhibition place, where you can join guided tours in addition to enjoying the apéritif, which will be served in the museum's foyer. After the apéritif, the conference dinner will take place in the *Hotel Verenhof* in Baden. Those who have not subscribed to the dinner, are free to enjoy the charming little city by their own. Friday's social events are kindly supported by ZENECA AG.

- Language:* The official language of SASRO and of this meeting is English. No translation will be available.
- Speaking time:* The scientific committee will score the submitted papers. The scoring will result in assigning a speaking time of either 8 min. plus 2 min. discussion or 13 min. plus 2 min. discussion. You will be personally informed about your allocated time 2 weeks ahead of the meeting.
- Visit of the PSI Proton Therapy Installation:* During the lunch breaks, we offer tours of the PSI Proton Therapy Installation. As space and therefore the number of participants per group are limited, we kindly ask you to register for a tour at the registration desk.

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*Sponsors of SASRO III, March 4–6, 1999*  
*(alphabetical order)*

ELEKTA Oncology Systems GmbH  
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SIRAD S.A.  
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Varian Oncology Systems  
ZENECA AG

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*Thursday, March 4, 1999*

09:00 – 10:00	Registration
10:00 – 10:20	<b>Welcome addresses</b>
10:20 – 12:00	<b>Radiation Oncology in Switzerland I</b>
12:00 – 13:30	Lunch at PSI's OASE restaurant
13:30 – 14:00	<b>SASRO Working Group report – <i>Basic and translational research</i></b>
14:00 – 14:40	<b>Invited Talk – <i>Biology</i></b>
14:40 – 16:15	<b>Biology I</b>
16:15 – 16:45	Coffee break
16:45 – 18:00	<b>Biology II</b>
18:00 – 19:00	Welcome apéritif in the foyer of the Auditorium, offered by ELEKTA
19:15	Transportation to hotels

*Friday, March 5, 1999*

08:45 – 09:45	<b>Radiation Oncology in Switzerland II</b>
09:45 – 10:15	Coffee break
10:15 – 11:05	<b>Invited Talks – <i>Physics</i></b>
11:05 – 12:00	<b>Physics</b>
12:00 – 13:30	Lunch at PSI's OASE restaurant
13:30 – 14:00	<b>SASRO Working Group report – <i>Medicine</i></b>
14:00 – 15:00	<b>Invited Talks – <i>Medicine</i></b>
15:00 – 16:15	<b>Combined Treatment Techniques I</b>

16:15 – 16:45 Coffee break

16:45 – 17:45 **Combined Treatment Techniques II**

*Social Events, supported by ZENECA AG:*

18:00 Transportation to the *Landvogteischloss* in Baden

18:20 Apéritif and visit to the *Historisches Museum* in the *Landvogteischloss Baden*

20:00 Transportation to the *Hotel Verenhof* in Baden

20:15 Conference Dinner (for subscribers)

*Saturday, March 6, 1999*

09:00 – 09:30 **SASRO Working Group report – *Relations and Politics***

09:30 – 10:45 **Special Treatment Techniques**

10:45 – 11:30 Coffee break

11:30 – 12:30 **Keynote lecture by Prof. H. D. Suit**

12:30 – 12:45 **SASRO Young Investigators Award**

12:45 – 13:00 **Concluding remarks**

13:00 – 14:00 Lunch at PSI's OASE restaurant

14:00 – 16:00 **SASRO General Assembly**

16:15 Transportation to the train station in Brugg

*Parallel Meeting*

09:00 - 11:15 **SASRO – Meeting for MTRAs**

*Thursday, March 4, 1999*

09:00 – 10:00 **Registration**

10:00 – 10:20 **Welcome addresses**

*Prof. R. O. Mirimanoff, President of SASRO*

*M. Jermann, Head of Staff, PSI*

*Prof. R. Ammann, Head Department of Biosciences at PSI*

10:20 – 12:00 **Radiation Oncology in Switzerland I**

**Chair: R. Greiner, W. Seelentag**

Interstitial  $^{192}\text{Ir}$  HDR-Brachytherapy for Recurrent Rectal Cancer. A New Approach for Preirradiated Patients.

*H. Kranzbühler, C. Kolotas, R. Mini, B. Isaak, R. H. Greiner (Bern, Offenbach)*

Low Dose Fractionation: Is 1 Gy bid less or more than 2 Gy single dose?

*K. T. Beer, R. H. Greiner (Bern)*

Radiation therapy for pineal parenchymal tumor with poor differentiation in an elderly patient: a case report.

*W. Jeanneret, A. Pica, R. Janzer, H. Fankhauser, R. O. Mirimanoff (Lausanne)*

A phase IV study of modified DAHANCA type accelerated curative or postoperative radiation therapy (RT) in patients with squamous-cell carcinoma of the head and neck (SCCHN).

*M. Özsahin, A. Zouhair, A. Franzetti-Pellanda, P. Coucke, R. O. Mirimanoff (Lausanne)*

Calculation of second cancer incidence following photon and proton radiation treatment of Hodgkin's disease.

*U. Schneider, A. Lomax, N. Lombriser (Zürich, Villigen)*

Oral sildenafil for erectile dysfunction after radiotherapy in prostate cancer patients.

*D. C. Weber, S. Bieri, R. Miralbell (Genève, Bellinzona)*



12:00 – 13:30 **Lunch at PSI's OASE restaurant,  
in parallel tours of the PSI Proton Therapy Installation**

13:30 – 14:00 **SASRO Working Group report**  
Basic and translational research group report  
*H. Blattmann (Villigen)*

14:00 – 14:40 **Invited Talk**

**Chair: H. Blattmann**

Tumor angiogenesis: mechanisms and relevance to cancer therapy.

*Curzio Rüegg (Lausanne)*

14:40 – 16:15 **Biology I**

**Chair: M. Özsohn, M. Pruschy**

Angiogenesis in radiobiology and radiotherapy.

*L. Plasswilm (Tübingen)*

Impact of tumor angiogenesis for radiosensitivity of squamous cell cancer of the oropharynx.

*D.M. Aebersold, K.T. Beer, J. Laissue, S. Hug, R.H. Greiner, V. Djonov (Bern)*

Determination of radiosensitivity in immunomagnetically isolated CD4 and CD8 lymphocytes by the neutral comet assay.

*E. Rached, H. Kranzbühler, D. Vetterli, R.H. Greiner (Bern)*

Ionizing radiation-induced apoptosis is reduced in peripheral CD4 and CD8 Lymphocytes, but delayed in lymphoblast cell lines, from A -T patients.

*Y. Shi, O. Sanal, G.C. Emery, H. Blattmann, N.E.A. Crompton (Villigen, Ankara)*

Apoptosis in CD4 and CD8 T-Lymphocytes DOGS:

A clinical Assay.

*P. Theiler, N.E.A. Crompton, H. Blattmann, G. Emery, A. Lieb, A. Parvis, B. Kaser-Hotz (Villigen, Zürich)*

Lymphocyte Apoptosis Assay: An interlaboratory comparison.

*L. Li, Y. Shi, N. Paschoud, P. Coucke, N.E.A. Crompton, M. Özsohn (Lausanne, Villigen)*

16:15 – 16:45 **Coffee break**

16:45 – 18:00 **Biology II**

**Chair: S. Bodis, N.E.A Crompton**

Transfer of Ku86 RNA antisense decreases the radioresistance of human fibroblasts.

*E. Marangoni, M. Le Romancer, N. Foray, C. Muller, S. Douc-Rasy, J. Bernier, J. Bourhis (Villejuif, Bellinzona)*

Long Term Cell Culture of Human Squamous Carcinoma of Irradiated Patients with Head and Neck Cancer.

*H. Resch, S. Rocha, S. Schmid, B. Odermatt, M. Pruschy, S. Bodis (Zürich)*

Defective cytochrome C release and caspaseactivation in combined staurosporine and irradiationtreated fibrosarcoma cells lacking p53.

*S. Rocha, H. Resch, K. Zaugg, C. Glanzmann, K. Winterhalter, S. Bodis, M. Pruschy (Zürich)*

Pediatric Medulloblastoma: Lack of prognostic value of p53, bcl-2, Mib-1, and microvessel density.

*S. Bieri, R. Miralbell, M. Tolnay, M.S. Pepper, W. Berchtold, A.P. Sappino, A. Probst, G. Pizzolato (Genève, Basel, Zürich)*

Boronated protoporphyrin Induced Cytotoxicity during neutron capture (BNCT) and Photodynamic Therapy (PDT).

*G.C. Emery, H. Walt, U. Haller, S. Kahl, Y. Shi, B. Larsson, H. Blattmann, N.E.A. Crompton (Villigen, Zürich, San Francisco)*

A new methylxanthine Lisofylline (LSF) increases radiosensitivity in air and hypoxia.

*S. Stern, K. Weber-Johnso, L. Li, N. Paschoud, P.A. Coucke (Lausanne)*

Biological evaluation of the advantages of conformal proton radiotherapy.

*N.E.A. Crompton, Y. Shi, G.C. Emery, A. Lomax, H. Blattmann (Villigen)*

18:00 – 19:00 **Welcome apéritif offered by ELEKTA, presentation of the company**

19:00 **Transportation to hotels**

## Friday, March 5, 1999

08:45 – 09:45 **Radiation Oncology in Switzerland II**

**Chair: U.M. Lütolf, R. Mini**

Preliminary experience with the Beta-Rail™ system from Novoste for the prevention of coronary restenosis after balloon angioplasty.

*P.A. Coucke, A. Pica, G. Pache, H.P. Do, E. Gollut, P. Urban, J.-J. Goy (Lausanne)*

Results and complications of postoperative vaginal HDR irradiation in endometrial cancer Stage I-III.

*M. Kubli, P.U. Huguenin, U.M. Lütolf (Zürich)*

Age related macula degeneration: update of results of the prospective randomized St. Gallen study.

*G. Ries, C. Valmaggia, P. Cossmann, J. Collon, M. Töpfer, C. Oehler, P. Bischof (St. Gallen)*

Proton radiotherapy of ocular tumors: 15 years of experience.

*E. Egger, L. Zografos, G. Goitein (Villigen, Lausanne)*

Radiotherapy in prostate cancer: Prone better than supine?

*D.C. Weber, M. Rouzaud, P. Nouet, R. Miralbell (Genève)*

09:45 – 10:15 **Coffee break**

10:15 – 11:05 **Invited Talks**

**Chair: L. André, M. Notter**

Fundamentals of Synchrotron Radiation and its Applications to Medical Research.

*William Thomlinson (Grenoble)*

Micro beam radiation therapy with synchrotron x-rays.

*Jean-A. Laissue (Bern)*

11:05 – 12:00 **Physics**

**Chair: E. Pedroni, J.F. Valley**

CT based dose optimization for interstitial HDR-Brachytherapy.

*B. Isaak, H. Kranzbühler, E. Born, R.H. Greiner, R. Mini (Bern)*

Dose volume histograms and biological modeling:

Problems and pitfalls.

*A.J. Lomax (Villigen)*

Optimization in the case of radiosurgery by arc-therapy and MMLC techniques.

*P.A. Tercier, J.F. Valley, R.O. Mirimanoff (Lausanne)*

Correction factors applied to in vivo dosimetry.

*P.A. Tercier, G. Pache, S. Raimondi, H.P. Do, J.F. Valley, R.O. Mirimanoff (Lausanne)*

New large area, flat-panel amorphous silicon portal imaging device in comparison with a liquid filled-ionization chamber.

*D. Vetterli, E.J. Born, R. Mini (Bern)*

12:00 – 13:30 **Lunch at PSI's OASE restaurant, in parallel tours of the PSI Proton Therapy Installation**

13:30 – 14:00 **SASRO Working Group report**

Protocol Group report

*C. Landmann (Basel)*

14:00 – 15:00 **Invited Talks**

**Chair: C. Landmann, P. Thum**

Sphincter saving surgery of mid and low rectal cancer.

*Markus von Flüe (Luzern)*

Analysis of the Swiss experiences of hyperfractionated radiotherapy in rectal cancer.

*Philippe A. Coucke (Lausanne)*

15:00 – 16:15 **Combined Treatment Techniques I**

**Chair: J. Bernier, J. Kurtz**

High Radio-Chemotherapy in the Treatment of Esophageal Cancer?

*K. Lindel, Ch. von Briel, M. Borner, R.H. Greiner (Bern)*

Radiotherapy (rt +/- concomitant chemotherapy (ct) in elderly patients with anal carcinomas.

*A.S. Allal, M. Obradovic, F. Laurencet, A.D. Roth, A. Spada, M-C. Marti, J.M. Kurtz (Genève)*

Up-front chest irradiation and optional prophylactic cranial irradiation with chemotherapy in limited small cell lung cancer. A phase II study.

*S. Balmer Majno, A. Hugli, D. Moro, M. Bolla, H. Bonnefoi, R. Miralbell (Genève, Grenoble)*

Chemotherapy and accelerated radiotherapy in head and neck carcinoma: The experience from four Swiss centres.  
*S. Bieri, S.M. Bentzen, P. Huguenin, C. Landmann, M. Monney, A.S. Allal, L. Cozzi, J. Bernier (Bellinzona, Basel, Genève, Zürich)*

First experiences with preoperative combined hyperfractionated radiation and continuous 5-FU infusion in advanced rectal cancer.

*J. Collon, G. Ries, M. Töpfer, B. Krause, C. Oehler (St. Gallen)*

Prospective Study of Postoperative Simultaneous Radio-Chemotherapy in Rectal Carcinoma.

*J. Curschmann, M. Castiglione, R.H. Greiner (Bern)*

16:15 – 16:45 **Coffee break**

16:45 – 17:45 **Combined Treatment Techniques II**

***Chair: A. Meister, G. Ries***

III A/B NSCLC: Quickly alternating, radical radio/chemotherapy with few side effects.

*G. Gruber, Ch. v. Briel, D. Betticher, H.B. Ris, R.H. Greiner (Bern)*

Recombinant Interferon beta-1a (IFNB-1a) in Combination with Radiotherapy for Non-Small-Cell Lung Cancer (NSCLC).

*R.O. Mirimanoff, G. Michel, N.P. Rowell, S. Balmer-Majno, N. Fazio, M. Özşahin, M.S. Aapro, R. Orecchia, J. Weiner, R. Goedkoop, R. Stupp (Lausanne, Genève, Oxford, Milano)*

Hyperfractionation combined with BCNU versus conventional fractionation in the radiotherapy of glioblastoma multiforme.

*C. Oehler, M. Töpfer, J. Collon, G. Ries (St. Gallen)*

Radiotherapy with concomitant daily Temozolomide (TMZ) followed by adjuvant TMZ in newly diagnosed glioblastoma multiforme (GBM).

*A. Pica, R. Janzer, H. Fankhauser, R.O. Mirimanoff (Lausanne)*

18:00 **Transportation to social events, which are kindly supported by ZENECA AG**

18:20 – 20:00 **Apéritif and visit to the *Historisches Museum* in the *Landvogteischloss*, Baden**

20:15 **Conference Dinner at the *Hotel Verena*hof in Baden**

## Saturday, March 6, 1999

- 09:00 – 09:30 **SASRO Working Group report**  
 Relations and Politics  
*U.M. Lütolf (Zürich)*
- 09:30 – 10:45 **Special Treatment Techniques**  
**Chair: L. Cozzi, G. Goitein**  
 Effect of active nutritional support using percutaneous endoscopic gastrostomy (PEG) for patients with head and neck cancer treated with radiation therapy (RT).  
*M. Özşahin, A. Zouhair, M. Monney, I. Larpin, P. Monnier, M. Roulet, M.A. Piquet (Lausanne)*  
 SCC of the lip: the ideal disease for Low Dose Rate-Brachytherapy (Ir-192).  
*Tatjana Lampret, Frank Behrensmeier, Richard H. Greiner (Bern)*  
 Proton Radiation Therapy at PSI – A Special Treatment Technique.  
*G. Goitein, L. Wisser, A. Lomax, E. Pedroni (Villigen)*  
 Failure pattern in canine nasal/paranasal cancer, irradiated with conformal proton therapy.  
*B. Kaser-Hotz, B. Hauser, A. Kistorz, S. Stankeova, F. Oberhänsli, H. Blattmann (Zürich, Villigen)*  
 Patient Positioning for Proton Therapy at the Paul Scherrer Institute.  
*L. Wisser, A. Lomax, G. Goitein (Villigen)*  
 Prostate Cancer and Pions – What have we done?  
*L. Wisser, G. Goitein (Villigen)*
- 10:45 – 11:30 **Coffee break**
- 11:30 – 12:30 **Keynote lecture**  
**Chair: R. O. Mirimanoff**  
 Limits to Prediction of Radiation Response of Normal Tissue.  
*Herman D. Suit (Boston)*
- 12:30 – 12:45 **SASRO Young Investigators Award**  
*presented by G. Goitein*
- 12:45 – 13:00 **Concluding remarks**  
*R. Mirimanoff, H. Blattmann, G. Goitein*
- 13:00 – 14:00 **Lunch at PSI's OASE restaurant**

14:00 – 16:00 **SASRO General Assembly**

16:15 **Transportation to the train station in Brugg**

### *Parallel Meeting*

09:00 – 11:15 **SASRO – Meeting for MTRAs**

*Chair: P. Fässler, B. Pastoors, B. Rossi*

Welcome address

*H. Blattmann (Villigen)*

Presentation of the MTRAs Professional Group of  
Radiooncology Switzerland

*B. Pastoors (Genève)*

Discussion

Therapieplanung für Stereotaxie

*Th. Dossenbach für Stereotaxiegruppe Physik USZ (Zürich)*

Stereotaxie mit MMLC, Arc und Ring am USZ

*M. Cabiallavetta, P. Fuksa, E. Rabe, S. Stange (USZ, Zürich)*

Dose homogeneity in the PTV – A challenge for every  
planning radiographer

*P. Fässler, M. Simic, R. Seiler, P. Thum (Luzern)*

Positionierungstechnik mit CT für Behandlungen mit  
Spot-Scanning-Protonen am PSI

*B. Rossi für Team ASM PSI (Villigen)*

Coffee break

Treatment of age related macula degeneration.

*G. Ries (St. Gallen)*

Simulation and treatment standards in radiotherapy at KSW.

*R. Krastins, U. Meier (Winterthur)*

Radioonkologie in der Schweizer MTRA-Ausbildung.

*Invited speakers, representatives of Swiss MTRA professional  
education*

Discussion

13:00 – 14:00 **Lunch at PSI's OASE restaurant,  
in parallel special tour of the PSI Proton Therapy  
Installation for MTRAs**

*B. Rossi, B. Siegenthaler (Villigen)*

We are very much looking forward to welcoming you at the Third Annual Meeting of the Scientific Association of Swiss Radiation Oncology SASRO, held at the Paul Scherrer Institute in Villigen, from March 4–6, 1999.



If you need any further information or other help concerning this Meeting, please feel free to contact the Secretariat Radiation Medicine at:

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Fax: +41 (0)56 310 35 15

e-mail: [radiation.medicine@psi.ch](mailto:radiation.medicine@psi.ch)

Internet: [www1.psi.ch/www\\_asm\\_hn/sasro.html](http://www1.psi.ch/www_asm_hn/sasro.html)

*The organisers*