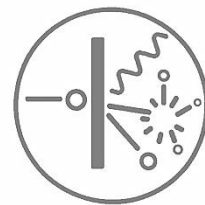


INTDS NEWSLETTER



July 2014
Volume 38
Number 1

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www.intds.org

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COVER PHOTO

The FRIB era has begun! See <http://video-monitoring.com/construction/msufrib/index.htm>
(Copyright © 2014 Erdman Video Systems, Inc. in collaboration with MSU- Facility for Rare Isotope Beams)

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LETTER FROM THE EDITOR

To the INTDS Membership,

The INTDS Newsletter is now being published and distributed in an electronic format ONLY. This helps in getting out issues in a timely manner, saves on postage, and operates more environmentally friendly by avoiding paper copies and envelopes. For those who wish – we still accommodate the regular paper issue – as it appears on the INTDS website as a .pdf where copies may be printed. Also, the most recently available membership list (2012) is included in this issue and may, in fact, be out-of-date. My apologies for this.

As Editor of the INTDS Newsletter, I wish to invite you to submit contributions of general or technical interest to the membership for upcoming issues. I feel as a Society, the Newsletters really should hold a center place within our Membership. It is a VITAL conduit for us between Conferences and, if you look, it has contained in the past many wonderfully rich articles about target making techniques which otherwise never made it into print. We owe it to our fellow & future members to keep this a relevant Newsletter by submitting our tips and treasures so that others don't have to "reinvent the wheel." I urge everyone to please CONTRIBUTE!

Examples may include:

- Description of recent target activities, i.e. your annual (or semi-annual) laboratory progress report.
- Information on any newly developed techniques.
- Requests for advice on making specific targets or obtaining special materials (enriched isotopes).
- Literature information regarding techniques and sample preparation.
- Employment opportunities.
- Nominations, promotions, retirement announcements, ... etc.

The Newsletter will accept advertisements placed by members, at the discretion of the editor. These ads should be one page in length or less, and must be relevant to target preparation. For instance, isotope services, equipment for sale, thin foil materials and/or targets in stock, etc.

Please send your contribution to my attention at your earliest convenience, preferably by email. Thank you.

John P. Greene
Editor

NEWS OF THE INTDS

Pre-Conference 2012 Board meeting, 19.08.2012, Mainz 10:00

Invited:

Klaus Eberhardt,	(ED: 2008-2012)
David Gilliam,	(O: 2008 -) Corresponding Secretary/Treasurer
John Greene,	(O: 2008 – 2012) vice president / Newsletter Editor
Birgit Kindler,	(O: 2010 -) Recording Secretary
Bettina Lommel,	(ED: 2010-2014)
Dannie Steski	(ED: 2008 – 2012)
Christelle Stodel.	(ED: 2008 -2012) excused
Anna Stolarz	(O: 2008 – 2012), President / INTDS DataBase)
Stefan Zeisler	(ED: 2010 - 2014)
Isao Sugai,	(ED: 2008-2012)
Atsushi Yoshida,	(ED: 2010 – 2014)

ED: elected director, O: officer

AGENDA

Welcome address AS

1. Changes/additions to the Agenda (Anna)
2. Minutes of the 2011 virtual INTDS Board Meeting (Birgit)
3. INTDS Financial and Membership Status Report (David)
4. Karasek Memorial Fund.
5. Conferences
Status of the 2012 Conference, (Klaus/Bettina)
 - a. Proceedings (Anna, Klaus)
 - b. Last minutes problems, other issues
 - c. Financial support of attendees
 - d. Approval of speakers and attendees for 26th conference (Anna + David)
 - e. Award 2012 handing
- General
 - f. Approval of the modified host guidelines (Anna)
 - g. proxy presentations for absentees
 - h. Host and site of the INTDS Conference 2014 (Tokyo, RIKEN)
 - i. Conf 2016
6. Election 2012 (Nom Com: David , Christelle, Atsushi)
Report of the Nominating Committee for election 2012 (David)
7. Status of the INTDS Newsletter (John)
8. Status of the web site (Anna)
9. INTDS Database (Anna)
10. Other business
11. Closing

1. **Changes/additions to the Agenda**

Anna welcomes the board. Klaus gives some information about the organization.

No changes or additions.

2. **Minutes of the 2011 virtual INTDS Board Meeting**

Birgit reports the minutes.

3. **INTDS Financial and Membership Status Report** David

Financial Status Report:

- INTDS2010 was extremely successful and filled the INTDS account.
- David checked if a lawyer's name is necessary. David is getting an expert opinion!
- Some details of interest rates, fees and legal point are specified.

Membership Status Report:

The people of the Target Fabrication Workshop (TFW) partly join the INTDS2012 partially but they are not members of the INTDS.

The number of members increased from 76 to 99 and also our "internationality" increased.

4. **Karasek Memorial Fund.**

The fund that was founded for the teaching of people coming new in the target business is still available but rather small in the moment. David proposes to put for example 20% of the next profits in the fund to support the institutions that give young target makers the possibility to be trained. On the other hand the fund is used very rarely. The advertisement on the web site should be improved to get more people to using the fund. The possibility should be addressed to during the membership meeting.

5. **Conferences**

Status of the 2012 Conference

a. Proceedings

NIM A will not publish the conference but due to the efforts of Stefan and Anna the Journal of Radioanalytical and Nuclear Chemistry agreed to publish our proceedings online and on CD for us (no hard copies from them). For the participants of the INTDS2012 GSI will do the hard copy printing (and for some extra people). Since the opportunity for printing is available, for this time the Board decides a printed version will be provided. So the people will get from us the CD and the hard copy in one mailing.

Anna and Klaus will discuss the formalities of distributing CD's or hard copies to people that are not participants. Also our things like the agenda, the conference photo etc. should be added to the proceedings.

The TFW will not publish with us. Perhaps some of them can be convinced, especially Martin Tolley with his overview talk. And in the moment they will also get no CD or hard copy from our proceedings.

In the reviewing process there should be a check on originality and it has to be taken care for the time frame.

For people who do not attend we will propose to pay 50 \$ to get an INTDS membership and then a free copy can be provided.

31st of September is the latest date to submit the paper but the reviewers should send a reminder well in advance. By end of October the first reviewing phase should be finished. If it doesn't work the paper will be given to another reviewer. The reviewers have to report the stage of the reviewing process at end of October. The reviewer should report problems with the paper immediately.

The goal is to end the reviewing procedure right before Christmas!

Reviewer's sheets are not necessary for us.

The publishing committee and the guest editors: Anna, Bettina, Birgit, Klaus, and John.

b. Last minutes problems, other issues

The actual time schedule and changes will be communicated every morning.

c. Financial support of attendees

6 people are receiving travel support and they will receive the support in cash if they provide receipts for their expenses to David. David proposes that in future it would be better give a bank transfer after the conference to their home institution as a default case to prevent for risk of pickpocketing or cheating. (With the 6th candidate – Cheltsov – there was a misunderstanding before the conference. Anna and David decided to give him the full support as an exceptional case.)

One participant who wanted only to be let off from payment of the conference fee is supported without publishing.

d. Approval of speakers and attendees for 26th conference

The list of speakers and attendees is approved.

e. Award 2012 handing

The award 2012 is given to Scott Aaron who cannot attend this conference. The award will be given to him in absentia. John will ask one of his colleagues who attend the conference to take the award in his place. This prize is given for longstanding scientific achievement with the INTD society.

We can think about a sort of young investigators award with an age limit in the future. But then the rules would have to be agreed on in the next virtual meeting

General

f. Approval of the modified host guidelines

The modified host guidelines are approved by the Board.

g. Proxy presentations for absentees

This should be possible only exceptional and if preferably a co-author should present the paper. The decision should be to the organization committee. In any case this should be done only once per author in a case by case decision.

h. Host and site of the INTDS Conference 2014 (Tokyo, RIKEN)

The INTDS2014 will be hosted by the accelerator division of the Nishina Center for Accelerator-Based Science, RIKEN. Last week of August or first week of September 2014 would be favorable for the Accelerator Division. The actual site is not clear yet. Either RIKEN Wako Campus or the Tokyo Bay Area in the National Museum "Miraikan" could be possible. Details will be announced at the Virtual Board Meeting next year latest.

Special focus will be on high-power stripper foils, on high-power targets and carbon nano-foils.

i. Conference 2016

One possibility could be iThemba Lab in South Africa. If this is not possible it would be perhaps to the US. Dannie will consider the case and ask his institution.

6. Election 2012 (Nom Com: David Gilliam, Christelle Stodel, Atsushi Yoshida)

Report of the Nominating Committee for election 2012

David has only two votes until now. Atsushi will send a remembrance email immediately. But the votes have to be here on Wednesday morning latest.

Elections of the officers:

Election of the new Vice President:

John nominates Klaus Eberhardt, The Board votes for Klaus to be the next vice president.

David is willing to continue as treasurer. Birgit is willing to continue as reporting secretary.

7. Status of the INTDS Newsletter

John reports on the status of the newsletter. In the moment nearly no more tips and tricks and absolutely no technical contributions come in. John will give the report at the membership meeting and ask people to send in contributions, even very short ones.

Copies of the newsletter will only be sent electronically in future and no more in a printed version.

Emeriti members could be asked to write small articles for basics like "How to ...".

Advertisements could be perhaps rotated for corporate members only.

8. Status of the web site

(Anna)

Membership site: The board discusses to improve the reference on the web how to join the INTDS and the possibility of a corporation membership with a fee higher than the 50 US\$ for a personal membership. The INTDS could also offer for such corporate members a link on the INTDS website to their company's website. The membership fee could perhaps be paid with google pay. There has to be a disclaimer on our website and a possibility to reject a company by the board.

Karasek Fund – The link on the INTDS website to the fund should be on the Home page and perhaps under a more informing name like for example "training fund". Anna takes care. There should be also some words about the history of the fund and the work of Frank Karasek (already in a former newsletter). John takes care for this.

9. INTDS Database

(Anna)

The database is updated in the moment and could be updated very fast since the data for this conference will be provided electronically.

10. Other business

Additional reviewers: Hans Maier ?; Bill Lozowski?

Scott Aaron? Jo and Joan Heagney? Daniel Stracener?

Helmut Folger?, Jurek Szerypo?, Winfried Barth? Goedele Sibbens? Christoph Düllmann?; Frédérique

Pellemoine?; Hironori Hasebe?

Christelle Stodel, Peter Maier-Komor, Ntombi Kheswa;

The full board.

11. Closing at 17:35

Membership meeting INTDS on Thursday, 23rd of August 2012

1. Welcome by our new president John Greene.
2. Minutes of the 2011 virtual INTDS Board Meeting reported by Birgit Kindler.
3. INTDS Financial and Membership Status Report given by David Gilliam.
4. Minutes of the pre-Conference 2012 Board meeting presented by Birgit Kindler.
5. Status of the Newsletter given by John Greene.
6. Conference Proceedings
The conference proceedings of the INTDS2012 will be published in the Journal of Radioanalytical and Nuclear Chemistry. All papers have to be submitted latest 31st of September, reviewing process should be completed until Christmas.
7. INTDS 2014
Hiroki Okuno announced that the next INTDS conference in 2014 will be hosted by the Accelerator Division of RIKEN Nishina Center for Accelerator-Based Science either end of August or beginning of September.
8. Board elections 2012 conducted by the election committee Atsushi Yoshida, David Gilliam and Ntombizonke Kheswa

Results of the elections (in alphabetic order):
 - Eberhardt, Klaus (U. Mainz, Germany)
 - Hasebe, Hiroo (RIKEN, Wako, Saitama, Japan)
 - Kheswa, Ntombi (iThemba Labs, South Africa)
 - Steski, Dannie (BNL, Upton, NY, USA)

2014 INTDS ELECTION

Dear INTDS Member,

The three positions on the INTDS Board of Directors currently held by Bettina Lommel, Atsushi Yoshida and Stefan Zeisler are expiring in September, 2014. The Nominating Committee (D. Steski-Chair, K. Eberhardt, Hiroo Hasebe, and Ntombi Kheswa), appointed by the president of the INTDS, has the pleasure of presenting a selection of candidates to INTDS members for their consideration. The newly elected Directors will serve on the Board for a period of four years, starting October 2014.

The Nominating Committee presents the names of six candidates (listed below), however, members are free to vote for any other INTDS Member, if the candidate agrees and can comply with the obligations of a Board Member (see by-laws at www.intds.org). The written agreement signed by the candidate has to be submitted to D. Steski - chair of the nominating committee - together with the ballot. Additional candidates may also be nominated at the 2014 INTDS conference in Tokyo.

You may vote for up to three (3) candidates.

Ballots with 'Yes' marks for **more than three names will be disregarded.**

Please bring your ballot to this year's conference in Tokyo.

If you are unable to attend the conference in Tokyo or you prefer to submit the ballot earlier, please mail, email or fax your completed ballot - **arriving no later than the 15th of August 2014** - to the chairperson of the Nominating Committee (address given below). If you prefer to vote by e-mail, your signature is not required. Your identification is presented by your e-mail address although a scan of the signed ballot will also be accepted..

Thank you.

Klaus Eberhardt

Hiroo Hasebe

Ntombi Kheswa

Dannie Steski (Chair)

Nominating Committee

INTDS Board Elections 2014

2014 INTDS Board of Directors Election Ballot

Candidates are listed in alphabetical order (by last name).

Please mark 'Yes' or 'No' for each candidate. **You have up to three (3) votes**

Name (Institution, Country)	Yes	No
Bacri, Charles-Olivier (IPN, France)	<input type="checkbox"/>	<input type="checkbox"/>
Kuboki, Hironori (J-PARC, Japan)	<input type="checkbox"/>	<input type="checkbox"/>
Lommel, Bettina (GSI, Germany)	<input type="checkbox"/>	<input type="checkbox"/>
Morrall, Paul (CCLRC, UK)	<input type="checkbox"/>	<input type="checkbox"/>
Pellemoine, Frederique (MSU, USA)	<input type="checkbox"/>	<input type="checkbox"/>
Zeisler, Stefan (TRIUMF, Canada)	<input type="checkbox"/>	<input type="checkbox"/>

If you wish to vote for candidates other than those listed above, please write them in here:
but please remember the total number of candidates you may vote for is 3

Name (Institution, Country)

Please sign and print your name on the ballot.

Date, Signature

Name (capital letters, please)

Please bring your completed ballot to INTDS 2014 in Tokyo or send by mail, email or FAX
- arriving not later than **the 15th of August 2014** - to:

D. Steski
Building 901A
Brookhaven National Laboratory
Upton, NY
11786
USA
Fax : (631)344-4583
Steski@bnl.gov



27th International Conference of the International Nuclear Target Development Society INTDS-2014

**State-of-the-art Technologies for Nuclear Target and Charge Stripper
Tokyo, Japan August 31 - September 5, 2014**

Third Circular

We are pleased to give you the last and latest information about the INTDS-2014 to be held in Tokyo, Japan. The conference is organized by RIKEN Nishina Center for Accelerator-Based Science (RNC). http://www.rarf.riken.go.jp/index_e.html

The INTDS (International Nuclear Target Development Society) is a worldwide professional society for target laboratories and target makers which promotes information exchange through biennial conferences and regular newsletters. <http://www.intds.org/>

Scientific Program:

Overview talks and contributions will cover current research and challenges both from the target maker's perspective as well as from the experimenter's point of view. Participants are invited to submit their contributions covering one of the following topics or related subjects:

Topics included:

- Preparation Techniques for Thin Films and Foils
- Charge Strippers (Foil, Liquid, Gas, Plasma)
- Radioactive Targets
- High-Power Targets
- Liquid and Gas Targets
- Targets for Industrial Applications
- Isotopic Enrichment and Isotopically Enriched Materials
- Target Characterization
- Targets and Coatings for Medical Radioisotope Production

Conference Web page:

Please visit the conference web page for detailed information:

<http://ribf.riken.jp/intds2014/index.html>

Important dates:

2014/02/14 - 06/15 Early registration, Abstract submission

2014/02/14 - 06/30 Hotel reservation

2014/06/16 - 08/22 Late registration

2014/07/18 3rd Circular

2014/07/25 Program announcement

2014/08/31 - 09/05 Conference

Registration & Conference fee :

Registration should be done via our conference web site no later than 22nd August.

(<http://ribf.riken.jp/intds2014/registration/index.html>)

Registration fees are described below. Please pay the fee at the registration desk at the conference.

Cash and credit cards (VISA, Master card, and American Express) are accepted. Registration desk will be open on Sunday evening at Hotel AZUR and Monday though Thursday at the Miraikan. You will receive the conference bag at there.

• Early registration (Feb.14 – Jun.15)

Registration costs for Participants: ¥50,000

The registration fee includes:

- Conference attendance, book of abstracts, copy of proceedings
- Welcome reception, banquet, all coffee breaks, Excursion, RIKEN tour
- 2-year membership for INTDS (50 US\$)

Registration costs for Companions:

Welcome party: ¥2,000 (free for persons under 19 years old)

Dinner cruise: ¥5,000 (free for persons under 19 years old)

Other activities (RIKEN tour, excursion, coffee break, etc.) are free.

• Late Registration (Jun. 16 – Aug.22)

Participants : ¥55,000

Companions: ¥25,000, ¥12,000 (children under 15 years old)

• Notice

- The conference fees can be paid at the registration desk only.

Cash and credit cards (Visa, Master Card and American Express) will be accepted.

We use an online payment system ‘Square’ (<https://squareup.com/>). A receipt will be issued by the LOC.

- All cancellations must be provided in written to the LOC.
- If you have accompanied children, please consult their price with LOC.

Instructions to Authors and Speakers:

• Presentations

All contributions accepted by the scientific committee will be presented in a talk in English (15 min talk + 5 min discussion/question). Since our program is extremely tight, we ask all speakers to keep their time limit strictly. A note-PC will be available for the presentation; speakers should provide their talk on USB-stick and are kindly asked to transfer their presentations (Power Point or PDF) one day before their talk or early in the morning (for Monday sessions).

• Manuscripts

Papers actually presented at the conference and submitted in due time will be published as conference proceedings in the Journal of Radioanalytical and Nuclear Chemistry (<http://www.springer.com/chemistry/journal/10967>) provided that they successfully pass the reviewing process. All papers will be peer reviewed. The page limit is 6 printed pages including all tables, figures, and references, which is equivalent to 12 double-spaced pages of draft. Detailed instructions are found at the conference web site. (<http://ribf.riken.jp/intds2014/index.html>) Participants are required to hand in their full papers at the conference registration. Those papers will be distributed to peer reviewers at the membership meeting held on Sep. 5 (Fri). Manuscripts not received by the due time will be excluded from publication in the Proceedings. Furthermore, the Editors reserve the right to reject manuscripts which are not returned during the review / editing process in a timely fashion. Detailed instructions of the submission to the publisher will be informed later.

Conference Venue:

The conference will take place at the National Museum of Emerging Science and Innovation (Miraikan) (<http://www.miraikan.jst.go.jp/en/>) located in Tokyo bay area, Odaiba. From a compact conference room at the 7th floor of the building, you can enjoy nice scenery of the Tokyo bay during the conference.

For a main lodging accommodation, Bayside Hotel AZUR Takeshiba (<http://en.hotel-azur.com/>) is available. It is located near Hamamatsucho Station of JR Line and offers easy access to downtown Tokyo. For transportation to the conference site, the new transit Yurikamome line is available. A welcome party will be held at hotel AZUR. The conference's banquet will take place on a dinner cruise ship departing from a pier in front of the hotel. An excursion to look for modern and historical Tokyo is planned as a bus tour. A bus tour for RIKEN Nishina Center is planned, also.

Access: • The National Museum of Emerging Science and Innovation (Miraikan)

(Main conference site)

The National Museum of Emerging Science and Innovation (Miraikan) is located in Tokyo bay area. It is 4 minutes' walk from "Telecom center station" of "YURIKAMOME" line. For details, please refer the following web page. <http://www.miraikan.jst.go.jp/en/guide/route/>

The floor map of the museum is available at the URL below.

<http://www.miraikan.jst.go.jp/en/guide/floormap/>

The conference sessions are held at the conference room No.2 on the 7th floor (left side of 7F map) of the museum. Please use the service entrance shown in the right side of the 1F map and go up to the 7th floor by the elevator on the right side of the service entrance. You can also use the main entrance of the museum (left side of 1F map) when the museum is open to the public. The opening time of the museum is 10:00 – 17:00 on Sunday, Monday, Wednesday to Saturday. (Tuesday is a regular holiday of the museum.)

• **Bayside Hotel AZUR Takeshiba (Welcome party on August 31)**

Hotel is located near the "Takeshiba station" of "YURIKAMOME" line. It takes 1 minute by walk. Please refer the hotel web page. (<http://en.hotel-azur.com/>)

Welcome party is held at the banquet room "ASUKA" on 13th floor of the hotel. The registration desk is open in front of the room.

Preliminary Program

Date	Aug.31 (Sun.)	Sep.1 (Mon.)	Sep. 2 (Tue.)	Sep.3 (Wed.)	Sep.4 (Thu.)		Sep. 5 (Fri.)
Morning 1	INTDS Board Meeting	Registration					
		Opening session / Targets and strippers for RIBF 1	Targets and strippers for RIBF 2 / RI beams 1	Invited talk	Production targets 1		Classical targets 3
Morning 2		Classical targets 1	Gas/liquid strippers	Solid strippers 2	Production targets 2	Target characteri- zation	Concluding session / INTDS member meeting and election
Lunch							
Afternoon 1	INTDS Board Meeting	Classical targets 2	Facility Tour (RIKEN RIBF)	Excursion to Tokyo City (Tokyo Skytree etc.)	Medical and industrial target	Liquid and gas targets	
Afternoon 2		Solid strippers 1			Radioactive target / RI beams 2	Laser related targets	
evening	Registration Welcome party			Reception (Dinner cruise)			

Venue: Hotel AZUR (Takeshiba)
Miraikan (Odaiba)
RIKEN (Wako)
Cruise ship

Registration desk will be open on Sunday evening at Hotel AZUR and Monday at the Miraikan. All sessions will be held at the Miraikan from Monday to Friday.

A reception with refreshment will be held on Sunday evening, August 31, at Hotel AZUR. On Tuesday afternoon, the participants will visit RIKEN Wako campus in Saitama prefecture (next to Tokyo) for a tour of RIKEN RI beam factory.

Social Program/ Facility Tours:

A reception with refreshment will be held on Sunday evening, August 31, at Hotel AZUR. On Tuesday afternoon, the participants will visit RIKEN Wako campus in Saitama prefecture (next to Tokyo) for a tour of RIKEN RI beam factory.

(http://www.rarf.riken.jp/index_e.html)

There are three big events planned for Wednesday. Prof. Iijima, who discovered carbon nanotubes, will give an invited lecture during the morning session. An excursion to enjoy the local atmosphere of Tokyo area will follow in the afternoon. We are going to visit Kandamyujin shrine to have a prayer ceremony, and then Tokyo sky-tree which is the world's highest free-standing tower for broadcasting. (<http://www.tokyo-skytree.jp/en/index.html>) The day will

close with a banquet on a cruise ship in the evening, where we can have dinner while enjoying the cruise in Tokyo-bay.

Transportation:

• **International airport**

There are two international airports near Tokyo.

Narita airport: <http://www.narita-airport.jp/en/index.html>

Haneda airport: <http://www.haneda-airport.jp/inter/en/>

• **Narita airport – Hamamatsucho st.** (near Hotel AZUR)

Hotel AZUR is located near Hamamatsucho Station of JR-Yamanote Line.

Railway-1: Narita – (Skyliner, 40 min) – Nippori – (JR, 17 min) – Hamamatsucho

Railway-2: Narita – (Narita Exp. 59 min) – Tokyo – (JR, 6 min) – Hamamatsucho

Bus: Narita – (Keisei bus, 70~90 min) – Tokyo – (JR, 6 min) – Hamamatsucho

• **Haneda airport – Hamamatsucho st.**

Railway: Haneda – (Tokyo monorail, 18 min) - Hamamatsucho

• **Hotel AZUR – conference site (Miraikan)**

Tokyo Waterfront New Transit Yurikamome line is the most convenient way to take you to the conference site. Takeshiba station (Yurikamome line) is just in front of Hotel AZUR.

Takeshiba – (Yurikamome, 14 min) – Telecom Center station

<http://www.yurikamome.co.jp/en/contents/hp0005/index.php?No=5&CNo=5>

It is a 4 minute walk from ‘Telecom Center station’ to ‘Miraikan’.

• **Google Map for travel information**

For more detailed travel information, please visit our Google map guide:

<https://maps.google.co.jp/maps/ms?msid=203478479915361918643.0004e7e3b4d42a5abdc8a&msa=0&ll=35.710838,139.717941&spn=0.393062,0.6427>

Accommodation:

Hotel reservations through the Local Organizing Committee (LOC) were already closed. Hotels around the conference venue are followings:

1) Bayside Hotel AZUR Takeshiba (recommended)

Easy access (Dinner, Facility tour, Takeshiba station, etc.)

2) Hotel Nikko Tokyo

Close to the conference venue.

3) Tokyo Bay Ariake Washington Hotel

Direct transportation from airports by limousine bus is available. Few restaurants are around here.

• **Google Map for these hotels**

<https://maps.google.co.jp/maps/ms?msid=203478479915361918643.0004ec9a78653b755d138&msa=0>

Scientific Advisory Committee:

- Hiroki Okuno, Hiroo Hasebe, Hiroshi Imao, Hironori Kuboki, Kouji Morimoto, Daiya Kaji, RNC, Koichi Yoshida, Atsushi Yoshida, Tomohiro Uesaka, Hiromitsu Haba and Shin'ichi Ichikawa, RIKEN Nishina Center (RNC), Japan
- Isao Sugai, KEK, High Energy Accelerator Research Organization, Japan
- John P. Greene, Argonne National Laboratory, USA
- Anna Stolarz, HIL-UW, Warsaw, Poland

Local Organizing Committee (LOC):

Hiroki Okuno (Chair), Hiroo Hasebe, Atsushi Yoshida, Hironori Kuboki, Hiroshi Imao, Daiya Kaji, Kouji Morimoto, Koichi Yoshida, and Karen Sakuma, RIKEN Nishina Center (RNC), Japan

Contact Information:

Conference website: <http://ribf.riken.jp/intds2014>

E-mail address

for Local Organizing Committee (LOC): intds2014@ribf.riken.jp

for your Hotel Reservation: intds2014hotel@ribf.riken.jp

Dr. Hiroki Okuno (Chair)

RIKEN Nishina Center for Accelerator-Based Science (RNC),
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VITALY LIECHTENSTEIN



Dr. Vitaly Liechtenstein was born June 10, 1941 in Cheron, a small town close to Odessa in the Ukraine. In the year 1945 his parents moved to Moscow. His main interests in school were physics and chemistry. As a consequence of very successful competitions regarding these subjects, he was allowed to study physics at the Institute for Natural Research in Moscow.

In 1962, while still a student, the Kurchatov Institute in Moscow hired him as a technician. After finishing his studies, Vitaly became a member of its scientific staff while he worked on his PhD. In 1979 he received a doctorate from the Kurchatov Institute faculty of physics and mathematics research. His research investigated the diagnosis of high temperature plasmas.

Vitaly remained at the Kurchatov Institute for his entire life, interrupted only by several foreign visits as a guest researcher. He was the main author or co-author of more than fifty papers, but he was completely unknown in the Western world until Perestroika. Vitaly took a chance and after several years he received permission for a trip to USA. The excellent scientific talks he presented guaranteed that travel support was granted from sources beyond the USSR. His productive association with the INTDS began with the conference in Bloomington, Indiana in 1994, where he presented a new technique to make extremely thin ($1 \mu\text{g}/\text{cm}^2$) diamond-like carbon foils useful for various applications. The venue of scientific interest within the INTDS fit Vitaly well; He published additional development and application of diamond carbon foils, generally in all issues of the INTDS/NIM proceedings. Unfortunately his cancer illness and treatment did not enable him to contribute personally to the most recent INTDS conference (Vancouver, 2010). Nevertheless, his last investigations were published in the NIM proceedings as a collaboration of nine authors from five different international institutions.

After cancer therapy in Heidelberg, Germany, Vitaly returned to Moscow where he died on August 2, 2011. His life and death touches me personally because, with regard to date-of -birth, he was one of triplets in the INTDS. It's quite an unusual coincidence that three members of our small society, were born on June 10, 1941: Vitaly, Jean Pauwels and myself (Peter Maier-Komor). For many years I was aware that Jean Pauwels and I shared this day, but due to different life histories, not with Vitaly. The reason was that I had told Vitaly I was born during WWII. He answered, "Then I am older than you because I was born before the start of WWII". Eventually, we realized that Russians date the start to June 21, 1941: when NAZI troops attacked the USSR close to the town Brest. But it may be also that Vitaly, a born Ukrainian, had in mind the date August 5, 1941: when troops of the kingdom of Romania, Allies of Nazi Germany, invaded the Ukraine in the battle of Odessa. Vitaly was a highly capable scientist and a warm-natured friend who is missed.

Peter Maier-Komor

HIGH POWER TARGET WORKSHOP

Fermi National Accelerator Laboratory - May 20, 2014 to May 23, 2014

The High Power Targetry Workshop series brings together interested scientists and engineers from the international community, in particular those operating or designing high power targets. The 5th workshop was focused on high power target facility issues from the design phase to the operations phase for Neutrino facilities, Spallation Sources and RIB facilities. Throughout the workshop, priority was given to discussions and exchanges with an even balance of presentations and moderated discussions.

Fermi Research Alliance, LLC hosted a reception and poster sessions on Tuesday, May 20, 2014, at 5:30 p.m. in the Gallery on the Second Floor Crossover of Wilson Hall. A workshop dinner was held on Wednesday, May 21, 2014, at 6:00 p.m. at the Chez Leon Restaurant in the Fermilab Village.

The program consisted of 5 focus sessions (serial sessions, not parallel sessions) with invited and contributed talks and discussion moderated by 2 co-conveners per session. In addition, traditional opening/closing plenary sessions and a poster session were included. Emphasis was placed on achieving a balance of prepared talks and engaging discussion with a focus on operational experience and "lessons learned".

Target Design Challenges - thermo-mechanical and hydraulic response of targets, beam windows, and other target-related components and systems

Radiation Damage and Material Limits - in context of target design challenges and establishing allowable material limits for critical components

Target Facility Simulation Challenges - including requirements for target facility design/operation, validation with empirical measurements, and unique applications

Target/Beam Monitoring & Instrumentation - high radiation/temperature instrumentation and monitoring systems for target and facility diagnostics, safety, and physics

Target Facility Challenges - optimizing facility architecture for operational performance, including radiation protection, remote handling, availability, and upgrade-ability

Plenary Sessions

Opening and Closing Plenary Presentations

HPT Workshop Poster Session

Abstracts accepted as posters were assigned to this Poster Session track with all posters presented at the Tuesday evening Poster Session. Posters remained on display for the duration of the Workshop.



Attendees at the recent HPTW 2014 held at Fermi National Accelerator Laboratory, including many INTDS members.