INTDS NEWSLETTER





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Contents



20

Letter from the Editor	3
News of the INTDS	
2009 INTDS Board Meeting Minutes	4
Addendum to the 2009 INTDS Board Meeting Minutes	14
2010 INTDS Awards	16

INTDS Membership List

Cover Photo

Cover photo showing landmark totems at Stanley Park in Vancouver. (Courtesy of Hiroo Hasebe)

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LETTER FROM THE EDITOR

To the INTDS Membership,

In this issue we present the Minutes of the 2009 INTDS Board Meeting held via email. These minutes were more extensively documented versus those held when we gather in person. We have strived to condense them to a degree and ask your indulgence as to their extended length. Over time, it is hoped that these off-conference year Board Meetings should become more streamlined and efficient.

Also, I would point out that there are **<u>NO Technical Contributions included in this issue!</u> In order to rectify this deficiency, I ask the following:**

WE ARE IN NEED OF TECHNICAL CONTRIBUTIONS

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.

Examples 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.

I look forward to your contribution.

John P. Greene Editor

News of the INTDS

MINUTES OF THE 2009 INTDS BOARD MEETING

(Held electronically via email and Dated: 25 November 2009)

Invited: members of the Board:

Klaus Eberhardt, <u>klaus.eberhardt@uni-mainz.de</u> (*ED:* 2008-2012) David Gilliam, <u>david.gilliam@nist.gov</u> (*O:* 2008 -) past president / Corresponding Secretary/Treasurer John Greene, <u>greene@anl.gov</u> (*O:* 2008 - 2012) vice president/ Recording Secretary/Newsletter Editor Bettina Lommel, <u>b.lommel@gsi.de</u> (*ED:* 2006 - 2010) Dannie Steski, <u>steski@bnl.gov</u> (*ED:* 2008 - 2012) Christelle Stodel, <u>stodel@ganil.fr</u> (*ED:* 2008 - 2012) Anna Stolarz, <u>anna@slcj.uw.edu.pl</u> *ED:* 2006-2010, *O:* 2008 - 2012, *President / INTDS DataBase*) Isao Sugai, <u>isao.sugai@kek.jp</u> (*ED:* 2008-2012) Stefan Zeisler, <u>zeisler@triumf.ca</u>, (*ED:* 2006-2010)

ED: elected director, O: officer

I. INTDS matters:

- 1. Financial and membership status report (David Gilliam)
- 2. Election 2010 (nominating committee: Klaus Eberhardt, Dannie Steski and Christelle Stodel)
- 3. Awards for 2010. Any suggestions?

II. Conference 2008

- 1. Approval of minutes of Board Meetings (John Greene)
- Pre-conf Board meeting on 14 September
- INTDS Business meeting on 18 September
- INTDS Reviewers meeting
- 2. Final report (Christelle Stodel
- 3. Proceedings
 - Status report Christelle Stodel, Anna Stolarz as co-editors, (David Gilliam resigned)

III. Status of the 25th INTDS conference 2010 – Stefan Zeisler

IV. Report on the web site

V. Newsletter status

Last one was July 2006. Are we continuing the Newsletter edition???

VI. Miscellaneous

2009 INTDS MEMBERSHIP REPORT

(21 December 2009)

	10 Sept. 2008	21 Dec. 2009
Regular Members	88	91
Emeritus	<u>13 (corrected)</u>	<u>11</u>
Total	101 (corrected)	102

Regular Membership by Continent:			
East and West Europe	27	42	
North American	30	22	
Asian	27	26	
African	2	1	
Australian	1	0	
South American	1	0	

Respectively submitted,

David M. Gilliam INTDS Corresponding Secretary/Treasurer

2. Election 2010 (nominating committee: Klaus Eberhardt, Dannie Steski and Christelle Stodel)

Dear INTDS Member,

The three positions on the INTDS Board of Directors currently held by Bettina Lommel, Anna Stolarz and Stefan Zeisler are expiring in the fall of 2010. The Nominating Committee (K. Eberhardt - Chair, D. Steski and C. Stodel), appointed by the president of the INTDS, has the pleasure of presenting a selection of five candidates to INTDS members for their consideration.

Please find attached the election ballot together with some additional information about the election procedure. Please bring your ballot to this year's conference in Vancouver. If you are unable to attend the conference or you prefer to submit the ballot earlier, please mail or fax your completed ballot - arriving no later than 31st of August 2010 - to the chairperson of the Nominating Committee.

Thank you,

Christelle Stodel Dannie Steski Klaus Eberhardt

Nominating Committee, INTDS Board Elections 2010

3. Awards for 2010. Any suggestions?

[sugai]

Concerning the Award of INTDS, I approached as follows to board members. Previously the awards have been given the retired staffs from the INTDS. However, I think the Award should be given not only to the retired one, but also to the staff doing good job not depending on age. However, Anna San of president of INTDS has not been taken it up to discuss about it.

I think that this proposal should be discussed on next board at TRIUMF.

Because, I believe that this would be fruitful to promote for activity up of our target society.

[stolarz]

Concerning the Award of INTDS, the age has no meaning but I like to make it clear that in the past at least Award was meant to prize the people who did the good job for the Society, who invented some new methods applied later widely by the target makers' community.

Your general idea is very good but would be nice if you can suggest the name of the person you have in mind.

BTW Isao-san if you see the list of awarded people (www.intds.org>awards&honours) you will find that not all were inactive when was awarded although indeed there is a tendency described by you.

[stolarz]

I found these guidelines very recently during my last stay at IRMM. I have no idea if the document was distributed to the Board. I am not sure if guidelines were obeyed very strictly (see awards from

1986 or 2002) but I think it is good to consider suggested rules.

I do not know when the guidelines were created. The date given under the document is the date I was able to retrieve from the file properties. Taking into account point 2 I would guess that it was created after 1986. As I may judge from the 1990 awardees, they were INTDS members more or less from the beginning.

Guidelines for INTDS Awards

Published in INTDS Newsletter Vol. 34. No. 2 (2008).

As you may see in the, probably not widely known, guidelines of the INTDS awards, nomination to the award has to be supported by justification and voted by the Board.

[zeisler]

This is the first time I heard about written guidelines for INTDS Awards. I have been a Director for a few years now and never learned about this.

[steski]

I would like to write a brief note to support the nomination of Bill Lozowski for the INTDS award.

I have only been in the target making business for a few years so I am sure that many others can describe Bill's accomplishments in more detail that I can however from my perspective he has made a major contribution to the field by developing the method of producing micro-carbon ribbons for polarimeter targets. At Brookhaven National Laboratory we have a large polarized proton program. In order to measure the polarization of the proton beam in the Relativistic Heavy Ion Collider (RHIC) we use thin carbon targets that are 25 nm thick by less than 10 micrometers wide (the width of a red blood cell) by 25 mm long. It is important to keep these targets as thin as possible to minimize the scatter of the circulating proton beam and to also prevent pile up errors in the detectors. It was Bill who developed the technique to make these ribbons in Indiana. Originally Bill made these targets first for the IUCF cooler ring and then for RHIC at Brookhaven.

Without these targets I am not sure that the polarized proton program at RHIC would be possible.

He also developed the technique to make ribbons for the AGS polarimeter at Brookhaven. The specifications for these targets are more relaxed (25nm by 75 micrometers by 50 mm) but Bill was able to come up with a clever and efficient method of producing them.

I first met Bill in 2001 when it was decided that the micro-ribbon production was so crucial to the future of RHIC that we need to transfer the production method to Brookhaven. It was also feared that Bill would soon retire and his knowledge would be lost. Over the years I have consulted with him several times, both in Indiana and in Brookhaven, to optimize the fabrication of the micro-carbon ribbons. I have always found it extremely pleasant and productive to work with Bill. He is always willing to share his knowledge and to offer novel solutions to difficult problems. I am fortunate to consider him one of my mentors.

Besides the micro-carbon ribbon work, Bill was also the target maker at Indiana for a number of years and has served the INTDS in a variety of roles. I am sure that others can expand on these contributions.

[stolarz]

Thanks a lot for mails discussing this year awards. We have to take the final decision pretty soon as we need to ask ... Aaron to prepare the plaques. I hope to hear soon other votes from Board members even the vote: abstain.

David I think you were contacting Aaron for the last award. Do you think he can still make one more plaque?

Being very much in favor for Bill as coming awarder I wrote some time ago asking him what are his plans concerning our 25th Conf.

Unfortunately he has with Sarah some other plans and can not join us. It would be great if he could be with us but I hope no one will see the problem in giving him the award in absentia (it becomes the INTDS tradition :-)), will be the 3rd time in a row).

Dannie thanks a lot for your very extensive justification. I thought that Bill's development of carbon ribbons was a great work but never realized how crucial they [ribbons] were for Brookhaven programs.

In addition, Bill served the Society in many position: early Newsletter editor, treasurer-corresponding secretary, president. I have to check but I think he was as well the recording secretary. He was one of the very first persons supporting me, as Bettina described for herself, when I started in this business.

Awards in the future:

Isao-san as you wrote this we will discuss during nearest Board meeting. It is hard for me to be in the shoe of the new comer but as beginner I would rather care for some support in developing my skills, for, may be, having financial support for going to the place where are experienced people to see how they prepare some specific targets (and for this we have Karasek Fund) and not so much for the potential award but this is my point of view and the point about our awards [to be discussed] is already set in the agenda of coming Board meeting.

What so ever we have to decide who (if anyone) will be awarded this year. And a decision has to be taken by the majority 2/3 of the Board members which means by at least 6 of us.

[lommel]

I absolutely agree with Dannie's statement. Additionally Bill Lozowski is a very open and communicative member of the society. His even temper was always very useful in meetings and discussion.

[stolarz, to the Board with Isao's exclusion]

Out of 9 Board members I got 6 votes. Bill is voted to be this year's awardee.

Following advices given in guidelines that it could be 2, may be we can consider another candidate to our award?

Isao Sugai:

His enthusiasm and devotion in searching the new techniques, new solutions is really out of the ordinary. Although few years ago he retired he is still very active and is searching solutions for recent problems with the same enthusiasm as years ago.

Still is working on the strippers (paper about life-time of the foils prepared by ion-beam sputtering is waiting for print) As I guess most of you know his HIVIPP method, applied for preparation of targets of various elements.

Only in the INTDS bibliography index I found nearly 25 papers but there are others.

May I ask for prompt votes from all of you?

[steski]

If we are considering giving 2 awards this year I would support giving one award to Bill Lozowski and the other to Isao Sugai.

I agree with Anna's comments below that Isao has been very active in target making and has done some very innovative things.

[lommel]

I strongly support the idea of giving two awards this year to Bill and Isao!

[stodel]

Sorry for the late reply. I vote for awards to Bill and Isao.

[eberhardt]

Although pretty late again, I also vote for giving two awards this time namely to Bill and Isao. For many years both have been very active and innovative researchers and also have served our community for a long time as active members of the society, in promoting young colleagues - as we have heard in several statements - and serving in the INTDS-Board.

[zeisler]

I would like to support the nomination of Bill and Isao. They have been outstanding members of our Society for decades. Their contribution to target making and stripper foil research is definitely worth appreciating.

[stolarz]

Taking into account the result of voting - 6 votes for Isao what is 2/3. We have to keep this 'secret' during our pre-conf Board meeting.

II. Conference 2008

- 1. Approval of minutes of Board Meetings (John Greene)
- Pre-conf Board meeting on 14 September 2008 Preconference Board Meeting Minutes, Published in INTDS Newsletter Vol. 34. No. 3 (2009).
- INTDS Business meeting on 18 September 2008 Membership Meeting Minutes, Published in INTDS Newsletter Vol. 34. No. 3 (2009).
- INTDS Reviewers meeting Reviewers Meeting Spreadsheet (distributed via email)
- 2. Final report (Christelle Stodel)
- 3. Proceedings
- Status report Christelle Stodel, Anna Stolarz as co-editors, (David Gilliam resigned)

Report on 24th INTDS proceedings and conference

The proceedings are still under completing.

On September 17, 2009 majority of manuscripts was submitted to ELSEVIER. Two more papers were submitted with some delay and two others, not completed by the author, were withdrawn in a last minute. So all together out of 41 presented papers 33 are expected to be printed in coming edition of the INTDS proceedings.

According to the information from 19 November 2009 editors are waiting for proofs of 5 papers + proofs from the quest editors which are completed (corrections were sent on November 26th)

We have no information at the moment when we may expect the print and delivery of the Proceedings.

Just to summarize known facts below some numbers: No of participants:

56 representing 11 countries

41

- No of presentation
- No of papers distributed for rev. 39 (list of reviewers: annex 1)
- No of papers to be published 33

The paper no 39 was compiled with paper 38, I expect to write and submit the paper 37 in 2010 (from Christelle

Budget:

.....

Submitted: 30.11.2009 Ch.Stodel, A.Stolarz

III. Status of the 25th INTDS conference 2010 – Stefan Zeisler

I have been quite busy with preparations for the 2010 Conference. I hope the following addresses most questions and concerns.

(1) I received the contact information for Elsevier from Christelle and immediately submitted the relevant forms etc. for the editors' consideration. Two days ago I received the following reply:

Thank you very much for your proposal to publish the 25th-INTDS contributions in our journal NIMA. The editors have carefully reviewed your proposal and decided that we are not able to publish the proceedings in NIMA.

Instead, I would like to introduce an alternative source for publication of the 25th-INTDS proceedings: Physics Procedia.

Procedia is an electronic product focussed entirely on publishing high quality conference proceedings on ScienceDirect. Procedia enables fast dissemination so conference delegates can publish their papers in

dedicated online issues, which are then made freely accessible to a worldwide audience. Conference proceedings are accepted for publication in Procedia based on suitability and are required to meet certain criteria, including relevance to an international audience and covering highly cited or timely topics. The conference proceedings will appear online, but for an extra fee, we can provide print copies as well. More information on Procedia can be found at <u>http://www.elsevierpublishingsolutions.com/procedia.asp</u>.

I would be happy to discuss this idea in further detail with you, so please do not hesitate to contact me in case of any questions.

I would like to ask the Board Members' opinion on how to proceed. *Please let me know at your earliest convenience.*

(2) Proceedings Editors. The Proceedings with be prepared by Dannie Steski and myself as co-editors (Thanks Dannie!)

(3) A Scientific Committee for INTDS-2010 has been established. Members: Anna Stolarz, Birgit Kindler, Dannie Steski, Paul Morrall, John Greene, and Klaus Eberhardt.

(4) We have 'volunteered' a Local Organizing Committee (LOC): Stefan Zeisler, Vinder Jaggi, James Somerville, Sandi Miller (TRIUMF Conference Coordinator).

(5) TRIUMF's Auditorium can easily host more than 100 people, so space should not be a problem.

(6) The LOC has started with more detailed conference planning, scheduling, tour etc. Things are well under way. A website will appear shortly. We will also email the First Announcement soon. Registration will likely open in the first week of April. *Is this time frame acceptable, or do you want registration to commence earlier?*

(6) I have started looking into the conference budget, but unless we have a firm quote for the publication of the Proceedings, it cannot be finalized. Of course, we will try to keep the registration fee as low as possible. As the conference is hosted by TRIUMF, we do not have to pay rent, which helps a lot. Our cafeteria will do most of the catering at a very reasonable rate.

(7) Financial support by TRIUMF: This is a difficult problem. TRIUMF, as a national laboratory, is on a 5year funding cycle, with the next 5-year budget starting in April of this year... TRIUMF management has absolutely no idea what the funding situation will be. This is becoming even more difficult since our beloved Prime Minister has just prorogued the Parliament of Canada to avoid dealing with some unpleasant issues. It may well be that the new federal budget will be announced much later than usual. My guess is that TRIUMF will not receive the funding as proposed. Consequently, there might be little or no support from TRIUMF. However, I have already informally contacted two companies who have great interest in the INTDS and are willing to support the conference. I am certain to get a fair amount from both of them that can be used for bursaries and travel support.

(8) Accommodation and Transportation to and from TRIUMF: TRIUMF has corporate rate agreements with some downtown hotels. -- I discussed the transportation issue with our conference coordinator. As public transportation in Vancouver is quite developed, we think that conference attendees should not have difficulty coming to TRIUMF by transit. It is fairly straightforward and should not take much more than about half an hour. It will also give attendees more flexibility and is cheaper than than pre-arranged transportation by coach.

Your comments are appreciated!

The detailed discussion on how to proceed the ELSEVIER decission available in the hard copy of the Newsletters.

IV. Report on the web site (Anna Stolarz)

WEB site report

(24 November 2009, Anna Stolarz)

WEB site since beginning of its creation was anchored at Indiana University but had to migrate to the new place because of Bill's retirement. The site name remains unchanged of course.

Fortunately we manage to avoid commercial server and now INTDS is hosted by Heavy Ion Laboratory of University of Warsaw. Redirecting the page went smoothly and now page is modified. While discussing the commercial servers as a new host for our site and new webmaster, Powell Barber offered to maintain the page but as page requires significant changes, not only maintenance, for the moment, for the time needed for site modification and update and upgrade the web mastering is in my hands.

As you may notice yourself the new sub-page LIBRARY was already created. It contains not only INTDS bibliography index, keywords list but as well scans of all not-NIM proceedings. This way they are available now for new members.

The same kind of scanned-archive is under 'construction' for Newsletters. It started with ~10 volumes and with help of Bettina Lommel the Newsletter shelve is filled in. The big THANKS go to Bettina for her help in scanning those missed issues.

John Greene supplied the issues edited by him (still is trying to find one missed). So more volumes (starting from vol.14, 1987 up to vol 33, 2006 are prepared (stripped from pages such as member list, board minutes, adverts) and wait already to be linked from the LIBRARY/Newsletter/Newsletter archive page.

David promised that when has time will scan the very first volumes inherited with all archive from Bill. So there is a chance to complete this archive with all volumes.

Further ideas for web: modification of the home page

HOME page:

who we are, what is the aim of the Society (including info which is now on INTEREST page), may be some Society history, list of the past presidents (may be on other page, not yet decided)

ABOUT US page

- Structure (including names of recent Board members + photo and short note about person (affiliation, how long in the Society, how long in the Board please help with suggestions);
- By-laws,
- Membership: what is giving, how to join the Society, Honors \$ Awards
- Contacts

Fully new:

ABOUT MEMBERS: info earlier published at Newsletters (retirements, obituaries)

Recent design, graphics of the site is temporary till the whole structure is more or less created and content is upgraded. When this is more or less completed I will look for beauty of the site. Please help to modify the site with your suggestions, comments and remarks. I will appreciate as well all reports if experiencing any problems with new pages (with info about the browser used).

V. Newsletter status (John Greene)

(See Newsletter Editor Report)

VI. Miscellaneous

[greene] Under VI. Miscellaneous

Next Conference? (Cycle - Europe/N. America/Far East)

My suggestions:

South Africa - iThemba Labs; Organizer - Ntombizonke Kheswa Plus I would recommend she get a faculty advisor to assist her (in addition to permission from her group leaders, etc.) Perhaps Anna and/or myself plan a trip ahead of the Conference to help out with the planning.

India - Inter University Accelerator Center; Organizer - Vivek Kumar Same - I would recommend he get a faculty advisor for assistance (in addition to permission from the lab management, etc.) Perhaps Anna and/or myself could plan a trip ahead of the Conference to help out with the organizing.

Also, Co-Sponsoring Conference with another Organization?

This would enable us to reach a broader audience and perhaps pool resources in order to hold down costs. Some suggestions would be the International Isotope Society (IIS). Darren Brown and I attended this last year in Chicago and they were interested. (See below)

Thursday, September 03, 2009 International Nuclear Target Development Society and IIS

Hi John and Darren:

I am almost caught up from the Meeting in Chicago. We recently held an IIS Board of Trustees (BoT) Meeting and I informed the rest of the BoT that we had spoken at the conclusion of the Session on the Production of Isotopes about the INTDS perhaps holding joint meetings or joining forces with the IIS in the future. Is this still a possibility? How do you want to proceed and what is required by your membership? Who else needs to be involved? Let me know and we can schedule some time to discuss in further detail what the arrangement might look like.

Best regards,

Brad Maxwell International Isotope Society

[lommel] Under VI. Miscellaneous

Next Conference:

I really like John's idea to organize the next conference after Vancouver in South Africa or India. It might be difficult for Ntombi or Vivek to organize this in only two years notice. Maybe one of us should check this with each of them directly after we have made up our mind.

We should try to figure out, where the next ICI is planned. I have visited the 4th ICI in 2002 in Capetown and in 5th ICI 2005 in Brussels, I have missed the conference in Seoul in 2008. Especially as several of us produce targets out of enriched isotopes, give assistance to the ion source who apply enriched isotopes or even organize the purchasing of the isotopes, this conference is very interesting and adds information from another perspective. So we could try to meet together first with one of the big isotope conferences. Maybe even one of these continents is already on their list too? They used to meet in a three years cycle. Can you, John, find this out easily?

[stolarz]

Let me thank those who participated actively in our virtual 2009 Board meeting. I would like to close our virtual discussion by the end of this week

(INTDS Board Meeting Closed) Tue 1/26/2010 7:30 AM

Respectfully submitted 08/28/10 John P. Greene Recording Secretary



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ADDENDUM TO THE 2009 INTDS BOARD MEETING MINUTES

[greene]

I would like to take up with the Board the opportunity to nominate Birgit as recording secretary.

This means she should be available to take the minutes at our next Board meeting.

[stolarz]

May the Board hear the Birgit's point of view about it? I, Anna, am very much in favour for having Birgit in our Board but as President I have only one point: this way we will have two persons from the same lab in the Board what is a bit in contradiction to what we always wanted: that Board should reflect the diverse geographic nature of the INTDS membership. What is the Board opinion?

[kindler]

John already discussed his idea with me in Caen and I told him that I could imagine to do the job, as long as the board keeps in mind that I am not a native speaker (or writer ;-)). If all the board members agree on the point that it is no problem having Bettina and me simultaneously on the board, it would be an honour for me.

By the way, is the "recording secretary" an elective or a consultant member of the board? Please feel free to distribute my opinion to the board; I am really open, no matter what the decision will be!

[stolarz]

John, please let me know if you are willing to make minutes from the recent discussion about awards so you will keep the position till Board meeting in Vancouver or I should ask Birgit to monitor this discussion.

Dear Birgit,

I am very pleased to tell you that 100% of the Board voted for you as the INTDS Recording Secretary. Welcome on the board. I will be very pleased to see you at the Board meetings.

In this situation we hope you can take your duty already at coming pre-conf Board meeting i.e. Sunday 12 September 2010 as I presume that sessions of the 25th Conf will really start on Monday, 13 September.

John, thank you very much for years of serving as Recording Secretary.

[Kindler]

Dear board members,

Thank you very much for your confidence, I am very pleased to accept the function and I will take the duty in September.

Respectfully submitted September 8, 2009

John P. Greene Recording Secretary

Vacuum Target Shipping Container

Microfoils Co. has developed a small, economical vacuum container which is ideal for shipping fragile foils. The design allows the mounted foils to be handled normally due to the absence of air, which is the primary cause of foil breakage. Thin foils mounted on accelerator target frames can be clamped in the container, the container evacuated, and shipped by normal means without fear of breakage. Due to the transparent materials of construction, the foils may be inspected upon arrival without opening the container. Since some leakage is inevitable and this leakage will allow moist air in contact with the foils, it is *not* recommended that these containers be used for the long term storage of target foils.

The normal mounting block (shown in drawing) is designed to hold up to eight frames. The frames are clamped in grooves in the Acrylic block by small set screws. Custom blocks for a larger number or unusual target frames are available from **Microfoils Co.** by quotation, or may be fabricated by the user.

The valve is a soft seat throttle valve for positive closure and gentle air flow upon opening. The thread is (US) 1/8" NPT, a tapered pipe thread for which there are a large number of standard adapters to common vacuum fittings, including metric and custom.

Model VAC-3 is 3.5 inch (8.9cm) outside diameter, 3.0 inch (7.6cm) inside diameter and approximately 3.0 inch (7.6cm) inside height. VAC-3 comes with a mounting block with four grooves and eight set screws.

Model VAC-4 is 4.5 inch (11.4cm) outside diameter, 4.0 inch (10.1cm) inside diameter and approximately 4.0 inch (10.1cm) inside height. VAC-4 comes with the same mounting block with four grooves and eight set screws. In order to take advantage of the increased size, larger blocks with custom configurations can be furnished (by separate quotation).

PRICES			
VAC-3	\$150.00 US	Prices are FOB Arlington, WA USA	
VAC-4	\$200.00 US	Price and specifications subject to change without notice.	

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INTDS AWARDS OF 2010

It is the INTDS tradition to present the award of recognition for outstanding achievements in development of the target preparation techniques or for service to the Society to persons nominated by the Board of Directors during the conference banquet.

This year's INTDS Awards of Recognition went to Bill Lozowski and Isao Sugai.

Bill Lozowski.

Bill during his nearly 40 years' carrier at Indiana University worked with almost all techniques. I remember his papers on pressing pellets, rolling foils, and of course on evaporation by different heating systems. He published many papers. Only in our INTDS bibliography index there are nearly 30 papers on making targets by pellet pressing, rolling, the papers on making sulphur and boron targets, and many others

But I think that if I ask people knowing Bill's accomplishments to list ONE achievement among his many successful works most of us would without any hesitation say CARBON FIBRES.

When the Board members was discussing the candidates for this year's award Dannie Steski wrote a letter supporting Bill's candidature and I cannot say anything better than Dannie said:

I would like to write a brief note to support the nomination of Bill Lozowski for the INTDS award. I have only been in the target making business for a few years so I am sure that many others can describe Bill's accomplishments in more detail that I can, however from my perspective he has made a major contribution to the field by developing the method of producing micro-carbon ribbons for polarimeter targets. At Brookhaven National Laboratory we have a large polarized proton program. In order to measure the polarization of the proton beam in the Relativistic Heavy Ion Collider (RHIC) we use thin carbon targets that are 25 nm thick by less than 10 micrometers wide (the width of a red blood cell) by 25 mm long. It is important to keep these targets as thin as possible to minimize the scatter of the circulating proton beam and to also prevent pile up errors in the detectors. It was Bill who developed the technique to make these ribbons for the IUCF cooler ring and then for RHIC at Brookhaven.

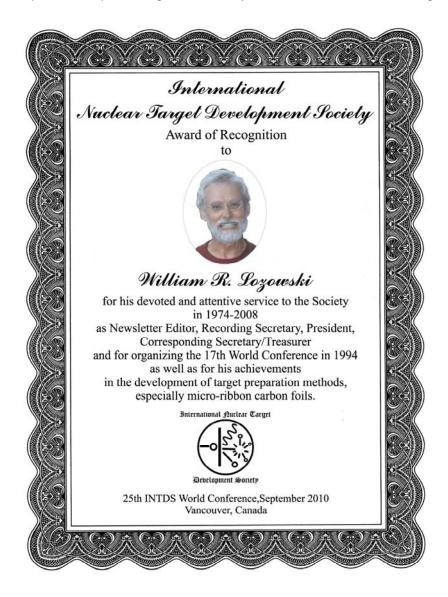
Without these targets I am not sure that the polarized proton program at RHIC would be possible. I first met Bill in 2001 when it was decided that the micro-ribbon production was so crucial to the future of RHIC that we need to transfer the production method to Brookhaven. It was also feared that Bill would soon retire and his knowledge would be lost. Over the years I have consulted with him several times, both in Indiana and in Brookhaven, to optimise the fabrication of the micro-carbon ribbons. I have always found it extremely pleasant and productive to work with Bill. He was always willing to share his knowledge and to offer novel solutions to difficult problems. I am fortunate to consider him one of my mentors.

Dannie, you are not the only one who has such a memory of Bill's support. Many of us remember him being always very friendly and very patient what was especially appreciated by beginners. His very calm relaxed way of being was a great support to us.

Besides the micro-carbon ribbon work, Bill's target preparation activity at the Indiana University for nearly 40 years, he has served as well the INTDS in a variety of roles:

Newsletter Editor, Recording Secretary, Vice-President and President, he created the first web site of our Society and maintained it till he retired. He also was the Society's Corresponding Secretary/ Treasurer until his retirement.

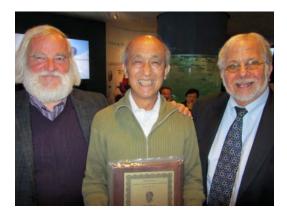
To thank him for his whole service to our Society, for the contributions to the development of the target techniques I have a pleasure of presenting, unfortunately in absentia, the award of recognition.



I regret very much I'm missing a chance to congratulate Bill personally but he has a private anniversary these days and is on a 'celebrating' trip with his wife, Sarah.

Isao Sugai

This evening I have a double pleasure as the Board of Directors decided to award two target makers. When the Board was discussing this year's candidates one of the Board member gave us some general advice to whom the award should go. But sorry Isao-san we haven't followed your advice and the Board, temporarily excluding you from further discussion (I hope you will forgive us this action), decided that the second award will go ... to you.



Roger Eykens, **Awardee Isao Sugai**, and David Gilliam at the INTDS Banquet. (Courtesy of Hiroo Hasebe)

All of us had already the pleasure of hearing the Isao's presentation on very thick carbon foils so you had a chance to see and hear his enthusiasm when presenting results of his work.

And this was always this way. He has always been full of enthusiasm when talking about his efforts of making new stronger stripper foils, the foils with extended life time.

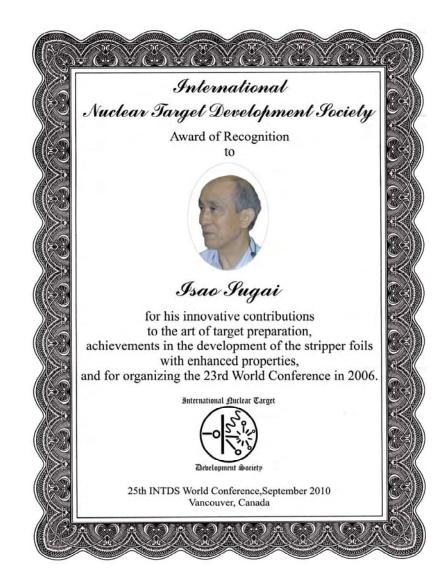
I found that over 50 % (15 out of 27) of Isao's publication listed in our bibliography index are devoted to carbon foils. In recognition of his engagement into the development of carbon foil preparation methods Isao Sugai already in 1980 was invited to join the 'Carbon foil steering committee' organised by Dave Tolfree from Daresburry Laboratory, UK. The purpose of the committee was to coordinate the innovative works to avoid the duplication of efforts undertaken worldwide.

But not only carbon stripper foils were and are of his concern. I remember when for the first time he talked about target preparation by powder vibration. The method is known under the acronym HIVIPP: HIgh energy VIbrational Powder Plating and when reported by Isao-san at Strasbourg Conference in 1996 some doubted if the method can be applied widely and repeated by other target makers. It took some years but it was successfully applied by others, to list only as example the boron plunger target made by vibrational plating and reported by Andrzej Lipski at 2006 in Tsukuba.

Talking about Tsukuba I think I will be forgiven for saying that the conference organised there in 2006 was one of our best. It was a marvellous event. Isao-san with help of his colleagues from various Institutes in Japan, some of them being with us tonight, organised a meeting that raised the bar very high.

And last but for sure not least Isao-san is a great companion and chair person of our informal evening sessions. I cannot imagine conferences without him. Isao-san, you have to stay active and keep coming to our meetings for the next 50 years until we all retire.

Congratulation Isao-san. I am honoured to have the opportunity of presenting the INTDS award to you.



(The trascript of the speach delivered at conference banquet by Anna Stolarz)

