

25th World Conference of the International Nuclear Target Development Society

TRIUMF, Vancouver, B.C., Canada

September 12-17, 2010

Conference Program

All scientific sessions will take place in the TRIUMF Auditorium.

Tuesday, September 14

Radioactive and Actinide Targets (Lommel / Stodel)

09:00 – 09:30 Toward large-area targets for "TRACULA"

Vascon, A.; Düllmann, Ch.E.; Eberhardt, K.; Kindler, B.; Lommel, B.; Runke, J.

09:30 – 10:00 CACAO: an installation dedicated to the fabrication and the characterization of thin radioactive targets

Bacri, Ch. O.; Petitbon, V.; Mottier, J.; Lefort, H.

10:00 – 10:30 Growth and Surface Morphology of Metallic Uranium Films

Sadi, S.; Paulenova, A.; Watson, P.R.; Loveland, W.

10:30 – 10:50 Coffee Break

10:50 – 11:20 Preparation of actinide targets for super-heavy element production at GSI

Eberhardt, K.; Düllmann, Ch.E.; Hofmann, S.; Kindler, B.; Kratz, J.V.; Lommel, B.; Runke, J.; Schädel, M.; Thörle-Pospiech, P.; Trautman, N.; Yakushev, A.

11:20 – 11:50 Electrodeposition of U and Pu on Thin C and Ti Substrates

Henderson, R.; Gostic, J.

11:50 – 13:15 Lunch Break

**Targets for Production of Medical Isotopes / Special Techniques and Applications
(Gilliam / Greene)**

13:15 – 13:45 The Carbon-11 Gas Target Design with Cooling Fins at the Cavity for High Production Yield

Hur, M.G.; Kim, S.W.; Kim, I.J.; Choi, S.M.; Park, J.H.; Yang, S.D.

13:45 – 14:15 The High Current Solid Target with Metal Foam for 30 MeV Cyclotron

Hur, M.G.; Kim, S.W.; Kim, I.J.; Park, J.H.; Yang, S.D.

14:15 – 14:45 Visualization experiment of 30 MeV proton beam irradiated water target

Hong, B.H.; Yang, T.K.; Jung, I.S.; Park, Y.S.; Cho, H.H.

14:45 – 15:15 Target Fabrication Capabilities at TUD with a Focus on Thin Cryogenic Deuterium

Schaumann, G.; Menzel, J.; Bedacht, S.; Roth, M.

15:15 – 15:45 Coffee Break

15:45 – 17:45 Tour of TRIUMF

Wednesday, September 15

09:00 – 09:50 Invited Lecture

Beam Stripping (Yoshida / Zeisler)

09:50 – 10:20 The ANU 14UD Accelerator - Carbon Stripper Foils: An endurance test
in so many ways
Muirhead, A.

10:20 – 10:50 Development of carbon stripper foils for high intensity uranium beams
Hasebe, H.; Kuboki, H.; Okuno, H.; Fukunishi, N.; Kamigaito, O.; Imao, H.;
Goto, A.; Kase, M.

10:50 – 11:10 Coffee Break

High Power Targets (Yoshida / Zeisler)

11:10 – 11:40 Thermo-mechanical behavior of a single slice test device for the FRIB
High Power Target
Pellemoine, F.; Mittag, W.; Avilov, M.; Ippel, D.; Lenz, J.; Oliva, J.; Silverman, I.;
Youchison, D.; Xu, T

11:40 – 12:10 Beam spot temperature monitoring on production target of BigRIPS separator
Yoshida, A.; Yanagisawa, Y.

12:10 – 13:25 Lunch Break

13:30 – 16:30 Sightseeing Tour: Buses leave TRIUMF at 13:30. After the tour, attendees will be
dropped off near city centre / hotels or at TRIUMF House, respectively.

19:00 – 23:00 Banquet at Vancouver Aquarium, Stanley Park.

Thursday, September 16

09:30 – 11:00 INTDS Membership Meeting

11:00 – 11:20 Coffee Break

Target Characterization (Bacri / Stolarz)

11:20 – 11:50 Target Characterisation by Rutherford Backscattering Spectroscopy and Alpha Spectrometry

Kheswa, N.

11:50 – 12:20 Quantitative Measurement of Oxygen Amount in Si Targets

Sugai, I.; Kawakami, H.

12:20 – 12:50 Investigation into Thin Film Growth

Morrall, P.

12:50 – 14:00 Lunch Break

Beam Stripping (Sugai / Kindler)

14:00 – 14:30 Charge-state distribution measurements using gas charge stripper toward ^{238}U and ^{136}Xe acceleration at RIKEN RIBF

Kuboki, H.; Okuno, H.; Yokouchi, S.; Hasebe, H.; Kishida, T.; Fukunishi, N.; Kamigaito, O.; Goto, A.; Kase, M.; Yano, Y.

14:30 – 15:00 Charge-state distribution measurements of ^{238}U using nitrogen gas and carbon foil charge strippers at 11, 14, and 15 MeV/nucleon

Kuboki, H.; Okuno, H.; Hasebe, H.; Yokouchi, S.; Fukunishi, N.; Kamigaito, O.; Imao, H.; Goto, A.; Kase, M.; Yano, Y.

Friday, September 17

**Thin Film and Foil Targets / Beam Stripping / Special Techniques and Applications
(Morrall / Barber)**

09:00 – 09:30 Preparation of self-supporting diamond-like nanofoils with thickness less than 5 nm
*Ma, W.; Friebel, H.U.; Szerypo, J.; Jung, D.; Hilz, P.; Frischke, D.; Maier, H.J.;
Schreiber, J.; Habs, D.*

09:30 – 10:00 Stripping molecular beams to higher charge states by means of two
successive carbon foils
*Seiler, D.; Korschinek, G.; Krücken, R.; Kumar, P.; Chopra, S.; Festermann, T.;
Ludwig, P.; Rugel, G.; Wallner, A*

10:00 – 10:30 Carbon-Silicon Stripping Foils
Zeisler, S.K.; Jaggi, V.

10:30 – 10:50 Coffee Break

10:50 – 11:20 Polyimide foils quality in relation to the preparation procedure
*Sibbens, G.; Luyckx, K.; Stolarz, A.; Moens, A.; Eykens, R.; Sapundjiev, D.; Aregbe, Y.;
Jaskóla, M.; Korman, A.*

11:20 – 11:50 Hydrogen-rich thin layers
Stolarz, A.; Sibbens, G.; Dean, A.; Józwik, M.; Aregbe, Y.

11:50 – 12:20 Target set-up for measurements with use of Si-ball detector
Kordyasz, A.; Stolarz, A.; Mierzejewski, J.

12:20 – 12:30 Closing Remarks and Announcement of INTDS-2012

12:30 – 13:30 Lunch

13:30 Departure