Igor Remec, Ph.D.

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EDUCATION

University of Maribor, Maribor, Slovenia
Doctor of Philosophy in Nuclear Engineering, 1991
Dissertation: *Influence of the Fuel Loading Patterns on the Nuclear Power Plant Pressure Vessel Neutron Exposure*, (in Slovenian: Vpliv razmestitve goriva na nevtronsko ekspozicijo tlacne posode jedrskega reaktorja)

University of Maribor, Maribor, Slovenia
Master of Science in Nuclear Engineering, 1986
Thesis: *Neutron Exposure of Nuclear Power Plant Krsko Pressure Vessel*,
(in Slovenian: Nevtronska ekspozicija tlacne posode Nuklearne Elektrarne Krsko)

University of Ljubljana, Ljubljana, Slovenia
Bachelor of Science in Physics, 1979
Diploma: *Counting of Tracks in Track Detectors with Spark Counter*,
(in Slovenian: Stetje sledi v detektorjih sledi z iskrnim stevcem)

AREAS OF EXPERTISE

Extensive expertise in research of radiation and particle transport with deterministic and stochastic computational methods, shielding design, design of targets for accelerator driven systems, neutronics analysis for reactor pressure vessel surveillance, reactor physics analysis and start-up tests, neutron and gamma spectrum adjustment methods development and analysis, dosimetry analysis, neutron activation simulation methods development and analysis.

WORK EXPERIENCE

1/2006 – Present
Senior R&D Staff Member, Oak Ridge National Laboratory,
Reactor and Nuclear Systems Division,
Radiation Transport Group (8/2009-Present)
Radiation Transport and Criticality Group (10/2006-8/2009)
Shield Design Group (1/2006-9/2006)
Served as neutronics lead for radiation shielding work for Spallation Neutron Source (SNS) beamlines 1A (TOF-USANS), 1B (NOMAD), 12 (TOPAZ) and 13 (Fundamental Neutron

Physics Beamline). Performed and directed complex shielding analyses, interacted with SNS technical staff and represented neutronics team through several Instrument Readiness Review processes. Provided neutronics support for the design and operation of the SNS target station. Served as principal investigator and investigator on technical projects related to the Facility for Radioactive Ion Beams, in particular on projects related to ISOL target development and optimization, beam dump studies, and heavy ion accelerator shielding. Provided neutronics support for HFIR life extension and modification projects.

6/1994 – 1/2006

R&D Staff Member, Oak Ridge National Laboratory,
Nuclear Science and Technology Division, Shield Design Group (10/2003-1/2006)
Applied Physics Group (2001-9/2003),
Computational Physics and Engineering Division, Shielding and Dosimetry Group (6/1994-2000)

Provided neutronics support for the NRC sponsored Heavy Section Steel Irradiation program, including neutron transport calculations and analysis of dosimetry measurements. Prepared two benchmarks, which are part of the NRC required methodology for qualification of PV neutron fluence calculational methodology. Performed neutronics analysis and participated in neutronics software development (such as Activation Analysis System) in support of the SNS Mercury target design, the SNS solid target back-up, and SNS related experiments performed at LANL. Contributed to the neutronics support for the Jupiter Icy Moon Orbiter project. Participated in the ORNL team in the Radioactive Ion Accelerator (RIA) work in cooperation with MSU NSCL, LLNL, LBNL, LANL, and ANL.

2/1993 – 5/1994

Postdoctoral Research Participant, Oak Ridge Associated Universities,
Oak Ridge National Laboratory, Computing Applications Division, Radiation Effects, Shielding and Dosimetry Group

Performed neutronics analysis of HFIR PV surveillance dosimetry. Discovered the contribution of gamma rays to HFIR PV material embrittlement, which effectively resolved the problem of accelerated embrittlement of HFIR PV surveillance material samples and allowed the continuation of HFIR operation. Developed method for simultaneous neutron and gamma-ray spectrum adjustment.

7/**1986 –1/1993**

Research Associate, Jozef Stefan Institute, Ljubljana, Slovenia,
Reactor Physics Division

Performed radiation transport and dosimetry analyses. Served as working mentor for new staff members. Developed procedures for reactor physics tests for PWRs; participated in the team that developed the methodology and demonstrated "Rod Drop" technique for the measurement of reactivity worth of PWR control rods.

12/1986 – 7/1987

Exchange Scientist, **Framatome,**
Fuel Division, Lyon, France**;** on leave from Jozef Stefan Institute, Ljubljana, Slovenia

Performed reactor physics analyses including complete fuel reload safety analyses for PWRs. Carried out neutronics analysis to determine parameters for the reactor physics tests at the reactor startup after refueling and participated in the start-up physics test at the Gravelies PWR.

5/1984 – 9/1984

International Atomic Energy Agency Trainee,

Oak Ridge National Laboratory; on leave from Jozef Stefan Institute, Ljubljana, Slovenia

Performed neutron transport calculations and dosimetry analysis for the Heavy Section Steel Irradiation Program.

11/1979 – 6/1986

Research Assistant, Jozef Stefan Institute, Ljubljana, Slovenia,

Reactor Physics Division

Performed radiation transport and dosimetry analyses for the pressure vessel surveillance of commercial PW Reactor. Participated in several reactor physics startup tests performed on Krsko PWR. Participated in development and implementation of neutronics methods and codes and measurement procedures for PWR start-up tests.

PUBLICATIONS

Authored or Co-authored over 100 peer-reviewed publications, such as Journal Articles, Papers in Proceedings of National and International Scientific Conferences and Technical Reports. Please see the attached Bibliography.

BIBLIOGRAPHY – Igor Remec

Igor Remec, "Shielding Calculations for the NPDGamma Experiment,"SNS-FUND13NPDG-50-DA0001-R00, November **2010.**

Igor Remec and Kursat B. Bekar, "Shielding Calculations for NOMAD Beamline," SNS-106100200-DA0035-R00, August **2010**.

Y. Zhang, **I. Remec**, G. D. Alton, Z. Liu, "Simulation of Rare Isotope Release from ISOL Target," Nuclear Instruments and Methods in Physical Research A 620 (**2010**) pp. 142-146.

Reginald Ronningen and **Igor Remec**, "Studies of Limits on Uncontrolled Heavy Ion Beam Losses for Allowing Hands-on Maintenance (DE-FG02-07ER41475), "Final Report, August **2010**.

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T. L. van Vuure, J. F. Ankner, J. F. Browning, L. G. Clonts, M. L. Crow, R. G. Cooper, **I. Remec**, J. D. Richards, R. A. Riedel, and J. L. Robertson, "First Measurements of the Inclined Boron Layer Thermal-Neutron Detector for Reflectometry," IEEE Transactions on Nuclear Science, Vol. 57, No. 1, February **2010,**
https://portal.ornl.gov/sites/apps/PTS/Lists/Publication%20List/AllItems.aspx?mode=view&pubid=21768

R. D. Cheverton, R. K. Nanstad, C. A. Baldwin, E. D. Blakeman, T. L. Dickson, H. A. Kmieciak, **I. Remec**, "Impact of 2004/2005 Dosimetry and Surveillance Data on the HFIR Vessel Radiation Embrittlement Trend Curve, Hydrostatic Proof Test Conditions, Pressure/Temperature Limits, and Life Extension," ORNL/TM-2008/007, December **2009**.

R. M. Ronningen, Georg Bollen, **Igor Remec**, "Prediction of Doses in Heavy Ion Linacs from Uncontrolled Beam Losses." Presented at the 54th Annual Meeting of the Health Physics Society, Minneapolis, MN, July 12-16, **2009**; to be published in proceedings.

Y. Zhang, **I. Remec**, Z. Liu," ISOL Target–Vapor Transport System Simulations," *Proceedings of Particle Accelerator Conference, PAC09*, Vancouver, BC, Canada, May 4-8, **2009**, pp. 2850-2852, http://trshare.triumf.ca/~pac09proc/Proceedings/papers/we6rfp028.pdf

R. M. Ronningen, Georg Bollen, **Igor Remec**, "Estimated Limits on Uncontrolled Beam Losses of Heavy Ions for Allowing Hands-On Maintenance at an Exotic Beam Facility Linac," *Nuclear Technology* 168, pp. 670-675 (**2009**).

L. K. Mansur, Y. M. Charara, S. B. Guetersloh, **I. Remec**, L. W. Townsend, "Fragmentation Calculations for Energetic Ions in Candidate Space Radiation Shielding Materials," *Nuclear Technology* **166(3)**, pp. 263-272, June **2009**.

I. Remec, *Shielding Calculations for the SNS Beamline 13 Characterization Measurements*, FUND13-19-DA0001-R0, Oak Ridge National Laboratory, Oak Ridge, TN, September **2008**.

I. Remec and C. A. Baldwin, *Analysis of HFIR Dosimetry Experiments Performed in Cycles 400 and 401*, ORNL/TM- 2008/046, Oak Ridge National Laboratory, Oak Ridge, TN, September **2008**.

R. M. Ronningen, G. Bollen, and **I. Remec**: "Estimated Limits on Uncontrolled Beam Losses of Heavy Ions for Allowing Hands-On Maintenance at an Exotic Beam Facility Linac," *Trans. Am. Nucl. Soc*. **90**, 597-600 (**2008**). [Selected as one of the best papers at the ICRS-11 / RPSD 2008 Topical Meeting in Pine Mountain, Georgia, April 13-18, 2008, and was invited for presentation at the 2008 winter meeting of the ANS, in Reno, NV, Nov. 10-14 2008, in the session "Best of RPSD 2008."]

I. Remec and E. D. Blakeman: "Neutronic Analyses in Support of the HFIR Beamline Modifications and Lifetime Extension," Proceedings of the Thirteenth International Symposium on Reactor Dosimetry, Akersloot, Alkmaar, Netherlands, May 25-30, **2008,** ISBN-13: 978-981-4271-10-3, pp. 571-579.

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Igor Remec, *TOPAZ Instrument Enclosure and Beam Stop Shielding Calculations, SING12-50-DA0002-R00*, Oak Ridge National Laboratory, Oak Ridge, TN, June **2007.**

The RIA Collaboration, **I. Remec** contributing, *Report on the Conceptual Design of the RIA Target Areas - ISOL Target Stations, Fragment Pre-separator Area, and the 2nd Stripping Region*, **2007**.

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I. Baek, R. M. Ronningen, X. Wu, A. F. Zeller, and **I. Remec**, "Determination of Component Activation and Radiation Environment in the Second Stripping Region of a High-Power Heavy-Ion Linear Accelerator," *Proceedings of Particle Accelerator Conference, PAC07*, June 25-29, **2007**, Albuquerque, NM, ISBN: 1-4244-0917, pp. 1760-1762, http://accelconf.web.cern.ch/AccelConf/p07/PAPERS/TUPAS050.PDF

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J. D. Cossairt, **I. Remec**, *Reginald Ronningen, Report from the External Review Committee on the Texas A&M Cyclotron Institute Upgrade Gas-Cell-Target*, Beam dump Area, March 2007.

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I. Remec, Gabriel, T. A., Wendel, M. W., Conner, D. L., Burgess, T. W., Ronningen, R. M., Blideanu, V., Bollen, G., Boles, J. L., Reyes, S., Ahle, L. E., and Stein, W., "Particle and Radiation Simulations for the Proposed Rare Isotope Accelerator Facility," *Nuclear Instruments and Methods in Physics Research A* **562** (**2006**), pp. 896-899.

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Reusable Irradiation Facility at the Ford Nuclear Reactor," *Journal of ASTM International* **3(7)**, pp. 90-97 (**2006)**, http://journalsip.astm.org/JOURNALS/DOWNLOAD/JAI13482.843-1.pdf

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I. Remec, T. A. Gabriel, M. W. Wendel, K. W. Childs, R. M. Ronningen, G. Bollen, Investigations of two-step ISOL targets for the production of exotic ion beams, Presented at the First Workshop on Actinide Target Development, April 27-29, **2006**, TRIUMF, Vancouver, British Columbia, Canada, http://watd.triumf.ca/talks/ronningen1.pdf

I. Remec, *Calculation of Dose Rates for Different Configurations with SNS Plug and Target Cavity*, SNS 106100200-TR0131-R00, Oak Ridge National Laboratory, Oak Ridge, February **2006**.

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I. Remec, *Estimation of Dose Rates Outside the Cask Containing the Inner Plug Upper Segments*, SNS 106100200-TR0127-R00, Oak Ridge National Laboratory, Oak Ridge, February **2006**.

I. Remec, *Estimation of Dose Rates Outside the Cask Containing the Inner Plug with the Cask Bottom Removed*, SNS 106100200-TR0128-R00, Oak Ridge National Laboratory, Oak Ridge, February **2006**.

I. Remec, *Estimate of Dose Rates Above the SNS Inner Plug*, SNS 106100200-TR0132-R00, Oak Ridge National Laboratory, Oak Ridge, March **2006**.

I. Remec, Thomas M. Rosseel, Edward D. Blakeman, Charles A. Baldwin, Dennis W. Heatherly, and Kenneth R. Thoms, "Characterization of the Neutron Field in the HSSI Reusable Irradiation Facility at the Ford Nuclear Reactor," *Journal of ASTM International* **3(7)**, (**2006**), http://journalsip.astm.org/JOURNALS/DOWNLOAD/JAI13482.843-1.pdf

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Reginald Ronningen, Georg Bollen, Valentin Blideanu, Don Lawton, David Morrissey, Bradley Sherrill, Al Zeller, Itacil Chiari Gomes, Anthony Levand, Yoichi Momozaki, Jerry Nolen, Claude Reed, Hans Geissel, Hiroshi Iwase, Lawrence Heilbronn, Larry Ahle, Jason Boles, Susana Reyes, Werner Stein, Mark Stoyer, James R. Beene, Thomas Burgess, Ken Carter, David Conner, Tony Gabriel, Louis Mansur, **Igor Remec**, Mark Rennich, Dan Stracener, and Mark Wendel: “Radiation Simulations and Development of Concepts for High Power Beam Dumps, Catchers and Pre-separator Area Layouts for the Fragment Separators for RIA,” *Proceedings of 21-st Particle Accelerator Conference, PAC 2005*, Knoxville, TN, (**2005**), http://accelconf.web.cern.ch/AccelConf/p05/PAPERS/RPPT063.PDF

Valentin Blideanu, Georg Bollen, Don Lawton, Paul Mantica, David Morrissey, Reginald Ronningen, Bradley Sherrill, Al Zeller, Todd Bredeweg, Francois M. Nortier, David Vieira, Lawrence Heilbronn, Larry Ahle, Jason Boles, Susana Reyes, Werner Stein, James R. Beene, Thomas Burgess, Ken Carter, David Conner, Tony Gabriel, Louis Mansur, **Igor Remec**, Mark Rennich, Dan Stracener, Mark Wendel, and Pierre Bricault: “Radiation Simulations for the Proposed ISOL Stations for RIA,” *Proceedings of 21-st Particle Accelerator Conference, PAC 2005*, Knoxville, TN, (**2005**), http://accelconf.web.cern.ch/AccelConf/p05/PAPERS/RPPT062.PDF

I. Remec, *Radionuclide Inventory of the SNS Inner Plug*, SNS-106100200-DA0021-R00, Oak Ridge National Laboratory, Oak Ridge, December 2005.

I. Remec, C. A. Baldwin, and E. D. Blakeman, *Characterization of the Neutron Field in the HSSI/UCSB Irradiation Facility at the Ford Nuclear Reactor*, ORNL/TM-1999/140, Oak Ridge National Laboratory, April **2005**.

I. Remec and J. C. Gehin, *Benchmark on the KRITZ-2 LEU and MOX Critical Experiments, Final report*, Nuclear Science, NEA/NSC/DOC (**2005**)24, ISBN 92-64-02298-8.

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J. O. Johnson, E. D. Blakeman, J. J. Yugo, and **I. Remec**, *Liquid Metal Reactor Shield Design Analysis In Support Of JIMO Technical Baseline II*, ORNL/LTR/JIMO/04-31, Oak Ridge National Laboratory, Oak Ridge, **2004**.

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