

RESUME

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EDUCATION:

- 1971-1974 Graduate School, Kazakh State University, Almaty, Kazakhstan
Ph.D. in Mechanical Engineering
- 1962-1967 Kazakh University, Almaty, Kazakhstan
B.S. in Physics
M.S. in Mechanical Engineering

EXPERIENCE:

- 1997-2015 Brookhaven National Laboratory, Nonproliferation and National Security Department
Project Manager
U.S. DOE/ U.S. DOE/National Nuclear Security Administration (NNSA) International Nuclear Materials Physical Protection and Accountability Program (MPC&A), Nuclear Materials Measurements Project: implementing MC&A upgrades at Russian nuclear facilities
- 2004-Present Member of Advisory Committee for Mathematics Department at Farmingdale State College, Farmingdale, New York
- 1982-1997 **Mechanical Engineer**
- PWR Safety: Lecturing in Europe for International Atomic Energy Agency (IAEA)
 - International Comparison of Probabilistic Accident Consequence Assessment Codes: Nuclear Energy Agency/Committee of European Communities/NRC
 - Cost-Benefit Analyses Supporting NRC and DOE Regulations
 - Consequence Analyses of Severe Accidents at Nuclear Power Plants
 - BWR Transient and Accident Analyses and Code Development and Application
- 1979-1982 Brookhaven National Laboratory
Associate Mechanical Engineer
- Nuclear Reactor Safety Codes Assessment and Application
- 1974-1978 Central Boiler and Turbine Institute, St. Petersburg, Russia
Senior Research Associate
Head of a research group on Liquid Metal Heat Exchangers
Theoretical and Applied Hydrodynamics:
- Numerical Simulation of Two-Dimensional Turbulence in Free and Channel Flows of Incompressible Fluids
 - Numerical Solutions of Navier-Stokes and Reynolds Equations for Laminar and Turbulent Flow Regimes
- Thermonuclear and Magneto-hydrodynamic Power Engineering:**
- Hydraulic Experiments for Liquid Metal Blanket of "Tokamak" Thermal-Nuclear Reactor
 - Calculations of Magneto-hydrodynamic Flows in a Rectangular Cell
 - Experiments on Liquid Metal Heat Transfer in Magnetic Field
- 1969-1971 Polytechnic Institute, Almaty, Kazakhstan
Senior Engineer
- Developed a Method for Calculating Natural and Forced Convection in Open-Cast Mining
- 1967-1968 Tselinograd Pedagogical Institute, Tselinograd, Kazakhstan
Assistant Professor, Department of Physics and Mathematics
- Courses in Physics
- LANGUAGES:** English, Russian

LIST OF SELECTED PUBLICATIONS

BOOK (in Russian):

Borishansky, V., S. Kutateladze, and N. Novikov, Liquid Metal Coolants, Moscow: Atom Publishing House, 1976.

PAPERS:

1. Lebedev, A., L. Neymotin, and L. Vulis, "Turbulent Mixing of Co-Current and Counter-Current Flows," Journal of Applied Mechanics and Technical Physics, Vol. 14, No. 6, pp. 813-820 (Translated into English).
2. "On the Magnetohydrodynamic Boundary Layer Near Porous Plate," Fourth Scientific-Pedagogical Conference, Tselinograd Pedagogical Institute, Tselinograd, 1968.
3. Lebedev, A. and L. Neymotin, "A Vortex Model of a Turbulent Jet in a Co-Current Flow," Mathematics and Mechanics, Vol. 8, State University, Alma-Ata, 1973.
4. Lebedev, A., L. Neymotin, and L. Vulis, "Simulation of Turbulent Mixing on the Basis of Vortical Motion of Ideal Fluid," Third National Conference on Applied Aerodynamics, Kiev, Ukraine, 1973.
5. Saha, P., U.S. Rohatgi, and L. Neymotin, "Annual Report on TRAC Independent Assessment at BNL," BNL-NUREG-27580, January 1980.
6. Saha, P., J. Jo, L. Neymotin, U.S. Rohatgi, and G.C. Slovik, "Independent Assessment of TRAC-PD2 and RELAP5/MOD1 Codes at BNL in FY 1981," NUREG/CR-3148, BNL-NUREG-51645, August 1980.
7. "TRAC-P1A Prediction of the Battelle-Frankfurt Top Blowdown Test," Transactions of the ANS and ENS 1980 International Conference, Vol. 35, November 16-21, 1980, pp. 330-332.
8. Rohatgi, U.S., L. Neymotin, and P. Saha, "Independent Assessment of TRAC Code with Various Blowdown Experiments," Third CSNI Specialist Meeting on Transient Two-Phase Flow, OECD Nuclear Energy Agency, March 23-25, 1981.
9. Saha, P., U.S. Rohatgi, L. Neymotin, and G. Slovik, "A Comparative Analysis of the International Standard Problem 8 Calculations," NUREG/CR-2159, BNL-NUREG-51339, March 1981.
10. Wulff, W., H.S. Cheng, D.J. Diamond, and M. Khatib-Rahbar (L. Neymotin as an Independent Contributor), "RAMONA-3B: A Computer Code with Three-Dimensional Neutron Kinetics for BWR System Transients," BNL, October 1981 (Draft).
11. Neymotin, L., "TRAC-PD2 Prediction of a FLECHT-SEASET Bottom Forced Reflood Experiment," Transactions of the ANS 1981 Winter Meeting, San Francisco, California, November 29-December 3, 1981.
12. Rohatgi, U.S., J. Jo, and L. Neymotin, "Constitutive Relations in TRAC-PD2," NUREG/CR-3073, BNL-NUREG-51616, September 1982.
13. Saha, P., U.S. Rohatgi, J. Jo, L. Neymotin, G. Slovik, C. Yuelys-Miksis, and J. Pu, "Independent Assessment of TRAC and RELAP5 Codes Through Separate Effects Tests," Eleventh Water Reactor Safety Research Information Meeting, NUREG/CP-0048, V. 2, October 24-28, 1983.
14. Connell, H.R., L. Neymotin, P. Saha, and G. Slovik, "User's Manual for RAMONA-3B: A Computer Code with Three-Dimensional Neutron Kinetics for BWR Systems Transients," February 1984 (BNL Draft Report).
15. Rohatgi, U.S., L. Neymotin and J. Pu, "Assessment of TRAC and RELAP5 Codes with ORNL Post-CHF Tests," Summer 1984 ANS Meeting, June 3-8, 1984, New Orleans, Louisiana.
16. Hsu, C.J., L. Neymotin, and P. Saha, "Analysis of a Typical BWR/4 MSIV Closure ATWS Using RAMONA-3B and TRAC-BD1 Codes," Joint ANS/ASME Nuclear Engineering Conference, August 4-8, 1984, Portland, Oregon.
17. Saha, P., L. Neymotin, and U.S. Rohatgi, "Analysis of Single and Parallel Tube Counter-Current Flow Limiting Experiments with TRAC-BD1 Code," International Meeting on Thermal Nuclear Reactor Safety, September 10-13, 1984, Karlsruhe, Germany.
18. Neymotin, L. and P. Saha, "A Typical BWR/4 MSIV Closure ATWS Analysis Using RAMONA-3B Code with Space-Time Neutron Kinetics," International Nuclear Power Plant Thermal Hydraulics and Operations Topical Meeting, Taipei, Taiwan, Republic of China, October 22-24, 1984.
19. Neymotin, L.C., J. Hsu, and P. Saha, "Assessment of TRAC-BD1 and RAMONA-3B Codes for BWR ATWS Application," Proceedings of the 12th Water Reactor Safety Research Information Meeting, Gaithersburg, Maryland, October 22-26, 1984.
20. Slovik, G.C., L. Neymotin, E. Cazzoli, and P. Saha, "RAMONA-3B Application to Browns Ferry ATWS," Proceedings of the 12th Water Reactor Safety Research Information Meeting, October 22-26, 1984.
21. Neymotin, L., G. Slovik, E. Cazzoli, and P. Saha, "Evaluation of BWR Emergency Procedure Guidelines for BWR ATWS Using RAMONA-3B Code," Third International Topical Meeting on Reactor Thermal Hydraulics, October 15-18, 1985, Newport, Rhode Island.
22. Slovik, G.C., L.Y. Neymotin, and P. Saha, "Application of RAMONA-3B to BWR ATWS," 13th Water Reactor Safety Research Information Meeting, October 22-25, 1985.

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24. Slovik, G.C., L.Y. Neymotin, and P. Saha, "Analysis of a BWR/4 MSIV Closure ATWS with Manual Rod Insertion using the RAMONA-3B Code," International ANS/ENS Topical Meeting on Thermal Reactor Safety, February 2-6, 1986, San Diego, California.
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27. Saha, P., G.C. Slovik, and L.Y. Neymotin, "RAMONA-3B Calculations for Browns Ferry ATWS Study," NUREG/CR-4739, BNL-NUREG-52021, February 1987.
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29. Purvis, E.E., III, Rosen, S., and Neymotin, L.Y., "VVER Accident Analyses: A U.S. View Based on a Literature Survey," IAEA and OECD Nuclear Energy Agency, International Symposium on Severe Accidents in Nuclear Power Plants, Sorrento, Italy, 21-25, March 1988.
30. Rohatgi, U.S., Neymotin, L., Jo, J., and Wulff, W., "Bias in Peak Clad Temperature Predictions Due to Uncertainties in Modeling of ECC Bypass and Dissolved Non-Condensable Gas Phenomena," NUREG/CR-5254, September 1990.
31. Rohatgi, U.S., Neymotin, L.Y., and Wulff, W., "Assessment of RAMONA-3B Methodology with FRIGG Dynamic Tests," International Workshop on Boiling Water Reactor Stability, OECD Nuclear Energy Agency, CSNI Report 178, Holtsville, New York, 17th - 19th October 1990.
32. Neymotin, L.Y., Rohatgi, U.S., Slovik, G.C., "RAMONA-3B/MOD1, A Computer Code with Three-Dimensional Neutron Kinetics for BWR System Transients. Modifications, Assessment, Application," Draft, July 1990.
33. Neymotin, L.Y., Rohatgi, U.S., Slovik, G.C., "RAMONA-3B/MOD1, A Computer Code with Three-Dimensional Neutron Kinetics for BWR System Transients. User's Manual," Draft, July 1990.
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35. Mubayi, V., Neymotin, L.Y., Jo, J., and Chu, T.L., "Preliminary Assessment of Risk for PWR Low Power/Shutdown Operation," Draft Letter Report, US NRC, December 1991.
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54. Diamond, D.J. and Neymotin, L., "Sensitivity Studies for the BWR Rod Drop Accident," Letter Report FIN W6382, Brookhaven National Laboratory, October 1996.
55. Mubayi, V., Jo, J., Lin, C.C., Neymotin, L., and Pratt, W.T., "Evaluation of Severe Accident Risk During Mid-Loop Operation at SURRY Unit-1," Fourth International Conference on Nuclear Engineering (ICONE-4), New Orleans, LA, March 10-14, 1996.
56. Diamond, D.J. and Neymotin, L., "Analyzing the Rod Drop Accident in a BWR with High Burnup Fuel," BNL-NUREG-63663, Brookhaven National Laboratory, February 1997.
57. U.S. Rohatgi, H.S. Cheng, H.J. Khan, A.N. Mallen, L.Y. Neymotin, "RAMONA-4B: A Computer Code With Three-Dimensional Neutron Kinetics for BWR and SBWR System Transient, User's Manual," NUREG/CR-6359, Vol. 2, March 1998.
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61. Tsygankov, G.S., et. al., Progress and Future Plans for MPC&A at Chelyabinsk-70, INMM 40th Annual Meeting, Phoenix, Arizona, USA, July 25-29, 1999.
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63. Neymotin, L. and Sviridova, V., "Possibilities for the day-to-day use of measurement equipment provided to Russian enterprises within the framework of the U.S.-Russian MPC&A cooperation," Proceedings of the Second Russian International Conference: MPC&A-2000, Obninsk, Russia, May 22-26, 2000
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65. Blasy, J., et. al., "New Directions for MPC&A at Chelyabinsk-70," INMM 41th Annual Meeting, New Orleans, Louisiana, USA, July 16-20, 2000
66. Schultz, F.J., Tsygankov, G., Zabolotnikov, V., and Neymotin, L., "Implementation of a Wireless Asset Tracking System in Russia: DOE/NNSA Initiatives for Proliferation Prevention (IPP) Program", INMM 44th Annual Meeting, Phoenix, Arizona, USA, July 15, 2003
67. Saprykin, I., Mininni, M., Moskowitz, P., and Neymotin, L., "Construction of Pipe Coating Facility in Snezhinsk", INMM 44th Annual Meeting, Phoenix, Arizona, USA, July 15, 2003
68. Topunov, D., Shlyaga, S., ITEC, Snezhinsk, Russia, and Neymotin, L., "Global Initiatives for Proliferation Prevention: Development of Wireless Asset Tracking System", INMM 46th Annual Meeting, Phoenix, Arizona, USA, July 2005
69. Saprykin, I. and Neymotin, L., "Construction of Pipe Coating Facility in Snezhinsk: DOE/NNSA Global

- Initiatives for Proliferation Prevention (GIPP) Program”, INMM 46th Annual Meeting, Phoenix, Arizona, USA, July 2005
70. Klopp, George T., Fontana, Mario, Roche, Charles T, Brunson, William, Elwood, Robert H, Jensen, Bruce A, Fuller, George, Campbell, Billy Joe, Hammond, Glenn, Owings Edward, Kenna, William, Neymotin, Lev, “The use of probabilistic risk assessment technology for evaluating MC&A effectiveness and relative risk contributors”, 48th INMM Annual Meeting, JW Marriott Starr Pass Resort & Spa, Tucson, Arizona, July 8-12, 2007
 71. Application of MSET Technique For Assessing Effectiveness of The Material Control & Accounting System at a Nuclear Facility, A.S. Sviridov, A.A. Petrov, I.N. Sazonov (VNIIA, Russia), V.V. Erastov, A.V. Stepashko (Rosatom), A.A. Voronkov (RI, Russia), B.A. Jensen, R.H. Elwood (Pro2Serve, USA), L.Y. Neymotin (BNL, USA), and C.L. Duncan (DOE), International MC&A Workshop, Obninsk, Russia, 2008
 72. Application of MSET method for assessing effectiveness of the Material Control & Accounting System at a nuclear facility, Dr. A.S. Sviridov, Dr. A.A. Petrov, I.N. Sazonov (All-Russian Research Institute of Automatics, (VNIIA), Russia), V.V. Erastov, A.V. Stepashko (Rosatom), A.A. Voronkov (Khlopin Radium Institute (KRI), Russia), Bruce Jensen (Pro2Serve/ANL, USA), Robert Elwood (NCAE/ORNL, USA), Lev Neymotin (BNL, USA), 50th INMM Conference, 2009
 73. Coordination of Activities on Implementation of MEM Support (MEMS) Strategic Plan at Russian Nuclear Facilities, V.A. Pitel (Rosatom), V.V. Erastov (Rosatom), A.V. Stepashko (Rosatom), A.S. Sviridov (VNIIA), V.V. Sviridova (VNIIA) and_ C. Duncan (DOE HQ), B. Jensen (ANL/P2S), L. Neymotin (BNL), J. Sanders (INL), IV Russian MPC&A International Conference, 19-23 October, 2009, Obninsk, Russia
 74. Status of Activities to Implement a Sustainable System of MC&A Equipment and Methodological Support at Rosatom Facilities, J.D. Sanders (INL), B.A. Jensen (NCAE), L. Neymotin (BNL), P.M. O’Shell (DOE) USA, A.S. Sviridov (VNIIA), V.V. Sviridova (VNIIA), Russia, 51st INMM Conference, July 11-15, 2010, Baltimore, USA
 75. A Self-Assessment Tool for MC&A at Russian Nuclear Facilities, C.T. Roche (ANL), R.H. Elwood (NCAE), B.A. Jensen (Pro2Serve), B.W. Meppen (INL), L. Neymotin (BNL), P.M. O’Shell (DOE), J.S. Boyd (DOE), A.S. Sviridov (VNIIA, Russia), A.A. Petrov (VNIIA, Russia) and A.V. Stepashko (Rosatom, Russia), 51st INMM Conference, July 11-15, 2010, Baltimore, USA
 76. Development of Measurement Methodologies and Reference Materials in Support of Material Control and Accounting Programs at Rosatom State Corporation Facilities, Victor Pitel, Andrey Stepashko (RF Rosatom), Andrey Sviridov (VNIIA), Veronica Sviridova (VNIIA), Russia, Bruce Jensen (ORNL), Lev Neymotin (BNL), Parker O’Shell (DOE), Jeff Sanders (INL), 52-nd Annual Meeting of the Institute of Nuclear Materials Management (INMM), Palm Desert, CA, July 18-21, 2011
 77. Holdup, Scrap, and Waste Material Control and Accounting Measurements at Rosatom State Corporation Facilities, Victor Pitel, Andrey Stepashko (RF Rosatom), Andrey Sviridov (VNIIA), Veronica Sviridova (VNIIA), Russia, Bruce Jensen (ORNL), Lev Neymotin (BNL), Parker O’Shell (DOE), Jeff Sanders (INL), USA, 52-nd Annual Meeting of the Institute of Nuclear Materials Management (INMM), Palm Desert, CA, July 18-21, 2011
 78. "Results of the First Inter-Laboratory Comparative Test of Uranium Control Samples", Leonid Karpiuk (VNIINM), Andrey Stepashko (RF Rosatom), Veronica Sviridova (VNIIA), Russia and Charles Roche (NCAE-ORNL), Colleen Gradel (NBL), Parker O’Shell (DOE), Bruce Jensen (NCAE-ORNL), Jeff Sanders (INL), Lev Neymotin (BNL), USA 53rd INMM Conference, Orlando, Florida, 2012
 79. "Results of Pilot Implementation of MC&A System Effectiveness Tool (MSET-R) at Russian Facilities" Andrey Sviridov (VNIIA), Andrey Stepashko (RF Rosatom), Alexander Petrov (VNIIA), Russia and Robert Elwood (NCAE-ORNL), Parker O’Shell (DOE), Bruce Jensen (NCAE-ORNL), Charles Roche (NCAE-ORNL), Bruce Meppen (NCAE-ORNL), Lev Neymotin (BNL), USA 53rd INMM Conference, Orlando, Florida, 2012