

PERSONAL INFORMATION **Dr Eng. PIOTR TRACZ**



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Sex Male | Date of birth 26/03/1979 | Nationality Polish

WORK EXPERIENCE

- Jan. 2015 ÷ present **Accelerator Engineer**
 Horia Hulubei National Institute for R&D in Physics and Nuclear Engineering (IFIN-HH),
 at project of Extreme Light Infrastructure Nuclear Physics.
 Magurele, Ilfov, Romania.
- Nov. 2009 ÷ Dec. 2014 **Accelerator Engineer - Coordinator of Linear Accelerator**
 Jagiellonian University, National Synchrotron Radiation Centre 'SOLARIS'.
 Krakow, Poland
- Nov. 2011 ÷ Nov. 2012 **Accelerator Engineer**
 MAX IV laboratory, Lund, Sweden
- Nov. 2010 ÷ Oct. 2011 **Postdoctoral Fellow**
 Paul Scherrer Institute (PSI), Accelerator Development and Operation Support Department.
 Villigen, Switzerland
- Nov 2009 ÷ Oct. 2010 **Research Assistant**
 Jagiellonian University, Physics Department.
 Krakow, Poland

EDUCATION

- 2004 – June 2009 **PhD in Physics**
 Henryk Niewodniczanski Institute of Nuclear Physics PAS, Structure
 Research of Condensed Matter Department.
 Krakow, Poland
- 1999 – 2004 **M.Eng. in Technical Physics**
 University of Science and Technology, Physics and Nuclear Techniques Department.
 Krakow, Poland

PERSONAL SKILLS

Mother tongue(s) Polish

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	Advanced	Advanced	Advanced	Advanced	Advanced
German	Basic	Basic	Basic	Basic	Basic
Romanian	Basic	Basic	Basic	Basic	Basic

Communication skills

- Good communication skills
- Ability to communicate research results effectively, both orally and in writing

Organisational / managerial skills

- Excellent analytical and organizational skills
- Ability to work independently and as a part of a group

Job-related skills

- Ability to learn quickly, open-minded

Digital competence	<ul style="list-style-type: none"> ▪ Computing codes for particle accelerators' physics and engineering: Elegant, Poisson-Superfish, Astra ▪ Matlab, Matlab RF toolbox, Mathematica, Maple ▪ Unix system ▪ Python, C/C++ (basic) ▪ Gnuplot, Origin ▪ AutoCAD ▪ Microsoft Project
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ADDITIONAL INFORMATION

● COURSES:

- a) CERN Accelerator Schools (CAS):
 - ▶ 'Numerical Methods for Analysis, Design and Modelling of Particle Accelerators'
 - ▶ 'General Accelerator Physics'
 - ▶ 'RF for Accelerators'
 - ▶ 'Synchrotron Radiation and Free Electron Lasers'
- b) RF Measurements Techniques – course completed during CAS
- c) Operator training on RF pulsed high power solid state modulators – completed at ScandiNova Systems AB, Uppsala, and at MAX IV laboratory, Lund, Sweden
- d) Neutron Laboratory Course at the Institute for Solid State Research Center Jülich, Germany

● CERTIFICATES:

- a) Operator of particle accelerators – certificate issued by Polish National Atomic Energy Agency
- b) Association of Polish Electrical Engineers SEP certificate up to 1 kV (maintenance, service, installation)
- c) Radioprotection course

LIST OF SELECTED PUBLICATIONS

1. P. Tracz, ELI-NP Gamma Beam System – Current Project Status; *Proceedings of LINAC 2018*, Beijing, China, ISBN: 978-3-95450-194-6.
2. P. Tracz, Modelling of Beam Parameters of RF Linac for GBS-ELI-NP; *Proceedings of LINAC 2018*, Beijing, China, ISBN: 978-3-95450-194-6.
3. P. Tracz, ELI-NP Gamma Beam System – New Facility for Nuclear Physics Research; *Proceedings of IEEE PPC 2017*, Brighton, UK.
4. P. Tracz, Beam Dynamics Simulations of Photoinjector for GBS at ELI-NP; *Scientific & Technical ELI-NP Reports 2018/2019*.
5. M.R. Bartosik, C.J. Bocchetta, P. Goryl, R. Nietubyc, M.J. Stankiewicz, P. Tracz, L. Walczak, A.I. Wawrzyniak, K. Wawrzyniak, J. Wiechecki, M. Zajac and L. Zytiniak; Solaris-National synchrotron radiation centre, project progress, May 2012; *Radiation Physics and Chemistry*, Vol. 93 (2013), p. 4-8.
6. P. Tracz, C.J. Bocchetta, P. Goryl, L. Walczak, A. Wawrzyniak, J. Wiechecki, M. Eriksson, D. Kumbaro, L. Malmgren, J. Modeer, S. Thorin; Injector System for the Polish Synchrotron Radiation Facility ‘SOLARIS’; *Proceedings of IPMHVC 2012*, San Diego, CA, USA
7. C.J. Bocchetta, P. Goryl, K. Krolas, M. Mlynarczyk, M.J. Stankiewicz, P. Tracz, et al. Project Status of the Polish Synchrotron Radiation Facility SOLARIS; *Synchrotron Radiation in Natural Science*, Vol. 11, No. 1-2 (2012), p. 1-4
8. P. Goryl, C.J. Bocchetta, K. Królas, M. Mlynarczyk, R. Nietubyc, M.J. Stankiewicz, P. Tracz, Ł. Walczak, A.I. Wawrzyniak; Solaris project status and challenges; MOPMU008, *Proceedings of ICALEPCS2011*, Grenoble, France
9. C.J. Bocchetta, P. Goryl, K. Królas, M. Mlynarczyk, M.J. Stankiewicz, P. Tracz, Ł. Walczak, A. Wawrzyniak; Project Status of the Polish Synchrotron Radiation Facility SOLARIS; THPC054, *Proceedings of IPAC2011*, San Sebastian, Spain
10. R. Podgajny, N.P. Chmel, M. Bałanda, P. Tracz, B. Gawel, D. Zajac, M. Sikora, Cz. Kapusta, W. Łasocha, T. Wasiutyński and B. Sieklucka; Exploring the Formation of 3D Ferromagnetic Cyano-Bridged $\text{CuII}_{2+x}\{\text{CuII}_4[\text{WV}(\text{CN})_8]_4-2x[\text{WIV}(\text{CN})_8]_2x\}\cdot y\text{H}_2\text{O}$ Networks, *J. Mater. Chem.* 17 (2007) 3308
11. P.M. Zieliński, P. Tracz, R. Podgajny, R. Pełka, M. Bałanda, T. Wasiutyński and B. Sieklucka; Photo-Induced Relaxation of Magnetization in Molecular Magnet, *Acta Phys. Pol. A*, 112 (2007) S-183
12. E. Juszyńska, M. Massalska-Arodź, J. Mayer, I. Natkaniec, J. Krawczyk, P. Tracz; Neutron Scattering in 3,3-dimethyl-2-butanol and 2,3-dimethyl-2-butanol; *Solid State Phenomena*, 112 (2006) 89