

Volodymyr Shatokha

Curriculum Vitae

1. PERSONAL DATA

First name: Volodymyr; Surname: Shatokha
Place of birth: Krivyi Rih, Ukraine
Office address: Gagarin av.4, Dnipropetrovsk – 49600, Ukraine
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E-mail addresses: shatokha@metal.nmetau.edu.ua, shatokha@gmail.com
Web-site: <http://euclim.com/>

2. EMPLOYMENT

Present employment

Institution: **National Metallurgical Academy of Ukraine**
Full time: Vice-Rector (Since Dec 2001)
Part time: Professor, Ironmaking Chair (Since – Feb 1999)

Visiting fellowships:

01/11/2012-28/02/2013 – visiting professor, **The University of Tokyo**, Graduate School of Frontier Sciences, Department of Advanced Materials Science

Previous periods of employments (all – with the National Metallurgical Academy of Ukraine)

Aug 1999 - Sep 2001: Dean of the Metallurgical Faculty
Feb 1999 – onwards Professor with the Metallurgical Faculty (since Aug 1999 - part time)
Dec 1992 - Jan 1999: Docent with the Metallurgical Faculty
Sept 1985 - Nov 1992: Junior, then Senior Researcher with the Ironmaking Chair

Languages:

Ukrainian and Russian - Mother tongues
Foreign languages: Writing Reading Speaking
English: Excellent Excellent Fluent
French: Fair Good Fair
Italian: Basic Basic Basic

3. DEGREES and EDUCATION

Academic Titles:

- 2002 – Professor
- 2001 - Docent
- 1992 – Senior Researcher

Scientific Degrees:

- 1999 - Doctor of Science (postdoctoral degree)
- 1985 – Candidate of Science (equivalent to PhD)

Higher education degree:

- 1982 – Engineer. Degree programme – Ferrous Metallurgy (study in Dnipropetrovsk Metallurgical Institute from September 1977 to June 1982)

4. RESEARCH INTERESTS

- EU energy and climate policies
- Sustainability analysis
- Sustainable development scenarios, modelling futures in iron and steel sector
- Recovery and recycling of industrial wastes

- Thermodynamics and kinetics of metallurgical processes
- Environmental protection in iron and steel industry
- Ironmaking
- Coal gasification

5. PEER REVIEW AND EVALUATION

Expert/ evaluator/ rapporteur

United Nations Organisation

- Desk reviewer of Clean Development Methodologies submitted to Sustainable Development Mechanism unit of the UNFCCC

European Commission

- Evaluation of proposals for Research Fund for Coal and Steel
- Assignments with the European Institute of Innovation and Technology (EIT)
- Evaluation of proposals for FP7

German Aerospace Center (DLR)

- Evaluation of proposals. Thematic Focus: Renewable Energy

International examiner/opponent for PhD theses

- University of New South Wales, Sydney, Australia in 2015 and 2010;
- Norwegian University of Science and Technology in 2013;
- Royal Institute of Technology, Stockholm, Sweden in 2009.

Reviewer for international journals

- Resources, Conservation and Recycling
- Thermochemica Acta
- Powder Technology
- International Journal of Minerals, Metallurgy and Materials
- Metallurgical and Materials Transactions B
- Steel Research Int.

Book Editor

Sintering - Methods and Products: Ed. Volodymyr Shatokha. Publisher - InTech, 2012, 316 p.
Open access link <http://www.intechopen.com/books/sintering-methods-and-products>

Member of Advisory/Editorial Board

- Metallurgical and Mining Industry (Ukraine) - since 2014
- Iron and Steel Institute of Japan International Journal (ISIJ International) in 2009-2012

6. INTERNATIONAL PROJECTS (LAST 5 YEARS)

Erasmus+

- "European Union Leadership in Climate Change Mitigation", 564689-EPP-1-2015-1-UAEPPJMO- MODULE, 2015-2018 – module leader; <http://euclim.com/>

FP7

Customised Advisory Services for Energy-efficient Manufacturing Systems (CASES) - under Marie Curie International Research Staff Exchange Scheme" Contract No. 294931, 2012-2016 (<http://www.fp7cases.eu/>) - coordinator for Ukraine

TEMPUS

1. Higher engineering training for environmentally sustainable industrial development 543966-TEMPUS-1-2013-1-BE-TEMPUS-JPCR, 2013-2016 (<http://hetes.com.ua>) - co-coordinator
2. Modernizing higher engineering education in Georgia, Ukraine and Uzbekistan to meet the technology challenge 530244-TEMPUS-1-2012-1-SE-TEMPUS-JPCR, 2012-2015 (<http://engi-tec.net/>) - co-coordinator

3. Support of innovations through improvement of regulatory framework for higher education in Ukraine 530158-TEMPUS-1-2012-1-SE-TEMPUS-SMHES, 2012-2015 (<http://spinoff-ua.eu/>) - co-coordinator
4. Building capacity for University-Enterprise partnerships towards competency based training in Armenia, Georgia and Ukraine, 516613-TEMPUS-1-2011-1-BE-TEMPUS-JPHES, 2011-2014, (<http://cap4com.eu>) - co-coordinator

7. RECOGNITION OF ACHIEVEMENTS

Member of the steering or organising committees for international conferences (last 5 years)

- Seattle, USA - 2016, 10th Intl. Conf. On Molten Slags, Fluxes and Salts (MOLTEN 2016)
- Sofia, Bulgaria - 2016, International Conference on Metallurgy and Materials (ICMM'16)
- Kyiv, Ukraine – 2015, AdMet 2015: Intl. Conf. “Advances in Metallurgical Proc & Materials”
- Cancun, Mexico – 2014, Shechtman International Symposium
- Dresden, Germany – 2012, 5th Intl. Cong. on Sci. & Technol. of Steelmaking (ICS 2012)
- Beijing, China – 2012, 9th Intl. Conf. On Molten Slags, Fluxes and Salts (MOLTEN 2012)
- Cancun, Mexico – 2011, Fray International Symposium

Associations and teams

- Member of the National Team of Higher Education Reform Experts (HERE) for Ukraine under Erasmus+ Key Action 3
<http://www.erasmusplus.org.ua/en/erasmus/ka3-support-to-policy-reforms/national-here-team.html>
- Associated Partner with the European Sustainable Development Network
<http://www.sd-network.eu/?k=about%20us%20and%20contact&s=associated%20partners>

Awards

- 2014 - "Excellence in education" award by Ministry of Education and Science of Ukraine
- 2011 - Laureate of the State Prize of Ukraine in Science and Technology
- 2010 – Medal "For the services to the Dnipropetrovsk region"
- 2004 – Honorary Professor at the Inner Mongolia University of Science and Technology (Baotou, China)
- 1999 - Honorary diploma of the Ministry of Education and Science of Ukraine

PUBLICATIONS

Published 150+ papers, 7 books, 6 patents.

Now in press or accepted papers

- Shatokha V. Potential of best available and radically new technologies for cutting carbon dioxide emissions in ironmaking - Chapter accepted for book - *Ironmaking and Steelmaking Processes. Greenhouse emissions control and reduction. Cavaliere, Pasquale (Ed.), Springer, 2016* (<http://www.springer.com/gp/book/9783319395272#aboutBook>)
- Shatokha V. Environmental sustainability of iron and steel industry: towards reaching the climate goals - paper accepted for *The 4th International Conference on Sustainable Development. Rome, Italy, 16-17 September 2016* <http://ecsdev.org/index.php/conference>

Essential publications in international peer-reviewed journals (last 5 years):

1. Shatokha V., Sokur I., Kamkina L. Study on Water Splitting Potential of Some Metallurgical Wastes for Production of Hydrogen: *Journal of Sustainable Metallurgy*. DOI: 10.1007/s40831-015-0038-0 (First online: 19 January 2016)
2. Shatokha V. The Sustainability of the Iron and Steel Industries in Ukraine: Challenges and Opportunities: *Journal of Sustainable Metallurgy*. DOI: 10.1007/s40831-015-0036-2 (First online: 10 December 2015).
3. Shatokha V. I., Sokolovskaya I. V. Effect of coal treatment with molten blast furnace slag on char properties: *Ironmaking and Steelmaking*. 2013 (40) pp. 635-637, DOI: 10.1179/1743281212Y.0000000080
4. Shatokha V., Semykina A., Nakano J., Sridhar S., Seetharaman S. A study on transformation of some transition metal oxides in molten steelmaking slag to magnetically susceptible compounds: *J. Min. Metall. Sect. B-Metall.* 49 (2) B (2013) pp. 169-174, DOI: 10.2298/JMMB120811008S
5. Semykina A., Dzhebian I, Shatokha V. On the Formation of Vanadium Ferrites in CaO–SiO₂–FeO–V₂O₅ Slags: *Steel Research Intl.* 2012 (83) pp. 1129–1134, DOI: 10.1002/srin.201200134
6. Shatokha V. and Velychko O. Study of softening and melting behaviour of iron ore sinter and pellets: *High Temperature Materials and Processes*. 2012 (31), pp..215-220, DOI: 10.1515/htmp-2012-0027
7. Shatokha V. I., Sokolovskaya I. V. Study on effect of coal treatment with blast furnace slag on char reactivity in air: *Ironmaking and Steelmaking*. 2012 (39), pp.439-445, DOI: 10.1179/1743281211Y.0000000091
8. Semykina A., Nakano J., Sridhar S., Shatokha V., Seetharaman S. Confocal Scanning Laser Microscopy studies of crystal growth during oxidation of a liquid FeO-CaO-SiO₂ slag: *Metallurgical and Materials Transactions B*. 2011 (42), pp. 471-476, DOI: 10.1007/s11663-011-9505-6
9. Semykina A., Gorobets O., Shatokha V., Seetharaman S. Cold Simulation of Particle Movement in a Conducting Liquid under Crossed Electric and Magnetic Fields. Magnetite Particles Separation from Molten Slags: *Steel Research Intl.* 2011 (82) pp. 362–368, DOI: 10.1002/srin.201000159
10. Shatokha V., Gogenko O., Kripak S. Utilising of the oiled rolling mills scale in iron ore sintering process: *Resources, Conservation and Recycling*. 2011 (55) pp.435–440, DOI: 10.1016/j.resconrec.2010.11.006

Presentations on the international peer-reviewed conferences (last 5 years):

1. Shatokha V. Ukraine's iron and steel industry in 2015: state, challenges and opportunities. *AdMet 2015: Intl. Conf. "Adv. in Metallurgical Proc & Mater"* June 3-5, 2015, Kyiv Ukraine
2. Shatokha V. Iron and steel industry in Ukraine: current state, challenges and future perspective. *Shechtman Intl. Symp.*, 30 June-3 July, 2014, Cancun, Mexico
3. T. Shyrokykh C. Schröder, P. Scheller, V. Shatokha, S. Seetharaman: Studies of High Temperature Surface Oxidation of FeO-CaO-SiO₂-V₂O₅ Slags with the Use of Single Hot Thermocouple Technique. *5th International Congress on the Science and Technology of Steelmaking*, 2-4 October 2012, Dresden, Germany
4. V.Shatokha, A.Semykina, J.Nakano, S.Sridhar, S.Seetharaman: A study on transformation of some transition metal oxides in molten steelmaking slag to magnetically susceptible compounds. *Proceedings of 9th Intl Conf on Molten Slags, Fluxes and Salts*, 27-30 May 2012, Beijing, China, pp.150-151.
5. A.Semykina, J.Nakano, S.Sridhar, V.Shatokha, S.Seetharaman: The utilisation of metallurgical slags by means of oxidation in the liquid state. *Proceedings of 9th Intl Conf on Molten Slags, Fluxes and Salts*, 27-30 May 2012, Beijing, China, p.228.

Patents (last 5 years):

1. A. Nakano, S. Seetharaman, V. Shatokha: Production of nano sized ferrite. US Patent 20150307957, C01G49/00, C22B7/04. Published Oct.29, 2015
2. A. Semykina, S. Seetharaman, V. Shatokha, O. Gorobets: Production of nano sized ferrite. Patent WO2012033454, C22B 7/04 (2006.01); International Application No.: PCT/SE2011/051078; Publication Date: 15.03.2012; International Filing Date 07.09.2011
3. Shatokha V. Continuous method for production of hydrogen № 95181. C01B 3/02. 11.07.2011 (Ukraine)