

## CURRICULUM VITAE

| Personal Details                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                     |
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| Prof. Dr. Sergiy Zibtsev                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                     |
| Affiliation: National University of Life and Environmental Sciences of Ukraine(NULESU) <a href="http://nubip.edu.ua">http://nubip.edu.ua</a><br>Institute of Forestry and Landscape-Park Management<br>Professor of Department of Silviculture and Fire Sciences<br>Director of the Regional Eastern European Fire Monitoring Center (REEFMC) <a href="http://nubip.edu.ua/en/reefmc">http://nubip.edu.ua/en/reefmc</a> |                                                                                                                                  |
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| Date of birth: 03.05.1961                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                     |
| Place of birth: Kyiv city, Ukraine                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                     |
| Education                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                     |
| 1984                                                                                                                                                                                                                                                                                                                                                                                                                    | Diploma Engineer in Forestry, Faculty of Forestry, National University of Life and Environmental Sciences of Ukraine                                                                                                |
| 1990                                                                                                                                                                                                                                                                                                                                                                                                                    | PhD in Forest Ecology, Dnipropetrovsk State University, Ukraine                                                                                                                                                     |
| 2013                                                                                                                                                                                                                                                                                                                                                                                                                    | Doctor of Sci. in Forestry, Prof. Hab.,<br>Institute of Forestry and Landscape-Park Management of the National University of Life and Environmental Sciences of Ukraine                                             |
| Professional Experience                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                     |
| 1989                                                                                                                                                                                                                                                                                                                                                                                                                    | Junior Researcher. “Monitoring of Forest Health in Western Ukraine (UN ECE ICP Forests)”, Kyiv Forest Research Station                                                                                              |
| 1993                                                                                                                                                                                                                                                                                                                                                                                                                    | Senior Researcher, Laboratory of forest radioecology, Kyiv Forest Research Station. “Sustainable and environmentally safe forest and fire management of forests in the Chernobyl Exclusion zone”                    |
| 1999                                                                                                                                                                                                                                                                                                                                                                                                                    | Associate Professor of the Department of Silviculture, Deputy Dean on International Relations, Institute of Forestry and Landscape-Park Management of the National University of Life and Environmental Sciences    |
| 2004                                                                                                                                                                                                                                                                                                                                                                                                                    | Senior Visiting Professor, Yale University School of Forestry and Environmental Studies                                                                                                                             |
| 2007                                                                                                                                                                                                                                                                                                                                                                                                                    | Local coordinator and expert of the WB project “Preparation and Design of the Ukraine Reforestation Biocarbon Fund Project”                                                                                         |
| 2008                                                                                                                                                                                                                                                                                                                                                                                                                    | Expert of the FP-7 project "Biomass Energy Europe" (BEE)                                                                                                                                                            |
| 2009                                                                                                                                                                                                                                                                                                                                                                                                                    | Expert of the Tempus project “Strategy of social-economic development for vicinity of the Chernobyl Exclusion Zone”                                                                                                 |
| 2010                                                                                                                                                                                                                                                                                                                                                                                                                    | Expert of the FP-7project "Geoinformation technologies, spatio-temporal approaches, and full carbon account for improving accuracy of GHG inventories" GESAPU                                                       |
| 2013                                                                                                                                                                                                                                                                                                                                                                                                                    | Head of the Fire Science Lab, Director of the Regional Eastern European Fire Monitoring Center. Development of integrated fire management systems in the critical fire regions of Ukraine (UNISDR, OSCE, CoE, GFMC) |

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| 2013-2019                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <ul style="list-style-type: none"> <li>• Local coordinator and expert in the project of the EU Black Sea Program “Utilizing stream waters in the suppression of forest fires with the help of new technologies”.</li> <li>• Expert of the FAO TCP “Consolidation of forest policy in Ukraine”;</li> <li>• Local expert for preparation of the UNEP GEF project “Conserving, Enhancing and Managing Carbon Stocks and Biodiversity while Promoting Sustainable Development in The Chernobyl Exclusion Zone through the Establishment of a Research and Environmental Protection Centre and Protected Area”;</li> <li>• Consultant for OSCE environment activity project on fire management in contaminated by radionuclides terrains and in the territories of military conflict in Eastern Ukraine (2015-2019);</li> <li>• Consultant of UNEP EnvSec project of consequences of conflict in Eastern Ukraine on environmental security;</li> <li>• Coordinator of US Forest Service project related with capacity building of fire management in the Chernobyl Exclusion Zone (2016-2018);</li> <li>• Coordinator of the Council of Europe project “Enhancing the national interagency and international cross-boundary dialogue and inter-operability in fire management in Eastern Europe”;</li> <li>• Scientific coordinator of the GEF / UNEP project “Conserving, Enhancing and Managing Carbon Stocks and Biodiversity in the Chernobyl Exclusion Zone” (2015-2019).</li> </ul> |
| <b>Research Topics</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <p>Primary topics – sustainable forest and land management, land-use, land-use change and forestry (LULUCF), integrated fire management, forest rehabilitation, impact of climate and land use changes on natural ecosystems health and management, ecosystem services of forests, carbon sequestration.</p> <p>Collaborative topics – ecosystem services assessment, impact of wildfires on ecosystem services and forest health, sustainable forest management in arid zones, regional forest policy.</p>                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Scientific Awards</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <p>2004 – Fulbright Scholar Award (Yale University);</p> <p>2013 – GSI/UN OCHA/UNEP Green Star Award.</p> <p>2015 – Honor Award of the Parliament of Ukraine “For Service for Ukrainian Nation”.</p>                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Selected Publications</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <p>Lakyda, Petro &amp; Shvidenko, Anatoly &amp; Bilous, Andrii &amp; Myroniuk, Victor &amp; Matsala, Maksym &amp; Zibtsev, Sergiy &amp; Schepaschenko, Dmitry &amp; Holiaka, Dmytrii &amp; Vasylyshyn, Roman &amp; Lakyda, Ivan &amp; Diachuk, Petro &amp; Kraxner, Florian. (2019). Impact of Disturbances on the Carbon Cycle of Forest Ecosystems in Ukrainian Polissya. Forests. 10. 337. 10.3390/f10040337.</p>                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <p>N. Evangeliou, A. Kylling, S. Eckhardt, Zibtsev S. Open fires in Greenland: an unusual event and its impact on the albedo of the Greenland Ice Sheet. In: Atmospheric Chemistry and Physics. Discussion Paper. Copernicus Publication, 2018. <a href="https://doi.org/10.5194/acp-2018-94">https://doi.org/10.5194/acp-2018-94</a> <a href="https://www.atmos-chem-phys-discuss.net/acp-2018-94/">https://www.atmos-chem-phys-discuss.net/acp-2018-94/</a></p>                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <p>Nikolaos Evangeliou, Thomas Hamburger, Nikolai Talerko, Sergey Zibtsev, Yuri Bondar, Andreas Stohl, Yves Balkanski, Timothy A. Mousseau, Anders P. Møller. Reconstructing the Chernobyl Nuclear Power Plant (CNPP) accident 30 years after. A unique database of air concentration and deposition measurements over Europe. Environmental Pollution. Available online 1 July 2016. <a href="http://www.sciencedirect.com/science/article/pii/S0269749116304110">http://www.sciencedirect.com/science/article/pii/S0269749116304110</a>.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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| <p>N. Evangeliou, S., Myroniuk, M. Zhurba, T. Hamburger, A. Stohl, Y. Balkanski, R. Paugam, T. A. Mousseau, A. P. Møller &amp; S. I. Kireev. Resuspension and atmospheric transport of radionuclides due to wildfires near the Chernobyl Nuclear Power Plant in 2015: An impact assessment. Scientific Reports, 2016. Vol. 6. Article number: 26062. Doi:10.1038/srep26062. URL: <a href="http://rdcu.be/i1GL">http://rdcu.be/i1GL</a></p>                                                                    |
| <p>Mitsopoulos, I., Mallinis, G., Borsuk, A., Zaimes, G. An integrated approach for mapping fire suppression difficulty in three different ecosystems of Eastern Europe. Journal of Spatial Science, 2016. DOI: 10.1080/14498596.2016.1169952. URL:<a href="http://dx.doi.org/10.1080/14498596.2016.1169952">http://dx.doi.org/10.1080/14498596.2016.1169952</a></p>                                                                                                                                          |
| <p>Zibtsev S.V., Goldammer J.G., Robinson S. et al. Fires in nuclear forests: silent threats to the environment and human security. Unasylva 243, Vol. 65, 2015/2. – P. 39-50.</p>                                                                                                                                                                                                                                                                                                                            |
| <p>Evangeliou, N., Balkanski, Y., Cozic, A., Hao, W.M., Mouillot, F., Thonicke, K., Paugam, R., Zibtsev, S., et al. 2015. Fire regime evolution in the radioactively contaminated forests of Ukraine and Belarus: risks foreseen for the European population and the environment from <sup>137</sup>Cs displacement. Ecological Monographs, 85(1), 49–72.</p>                                                                                                                                                 |
| <p>Zaimes G.N, Mitsopoulos I., Zibtsev S., Saglam B., Mallinis G., Kucuk O., Borsuk A. Innovative techniques to suppress wildfires in the Black Sea Region. In Sustaining Forests, Sustaining People: The Role of Research. XXIV IUFRO World Congress, 5-11 October 2014, Salt Lake City, USA. Abstracts, Salt lake City, USA. P. 168.</p>                                                                                                                                                                    |
| <p>Zibtsev S., LaRoche D., Oliver C.D., Goldammer J.G. Managing the irradiated forest of the Chernobyl Exclusion Zone for nature conservation, fire protection, and biomass fuel production. In: Sustaining Forests, Sustaining People: The Role of Research. XXIV IUFRO World Congress, 5-11 October 2014, Salt Lake City, USA. Abstracts, Salt lake City, USA. P. 186.</p>                                                                                                                                  |
| <p>Lakyda P.I., Vasylyshyn R.D., Bilous A.M., Zibtsev S.V. Deposited Carbon in Ukrainian Forests: Current Stock and Midterm Forecast. In Sustaining Forests, Sustaining People: The Role of Research. XXIV IUFRO World Congress, 5-11 October 2014, Salt Lake City, USA. Abstracts, Salt lake City, USA. P. 412.</p>                                                                                                                                                                                          |
| <p>Lakyda P., Vasylyshyn R., Zibtsev S., Lakyda I., Böttcher H. Potentials of Forest Biomass for Energetic Use in Ukraine. In: "Earth bioresources and quality of life". –N 3. - 2013 – P. 1-16. (<a href="http://gchera-ejournal.nubip.edu.ua/index.php/ebql/article/view/105/64">http://gchera-ejournal.nubip.edu.ua/index.php/ebql/article/view/105/64</a> ).</p>                                                                                                                                          |
| <p>Aaron Hohl, Andrew Niccolai, Chad Oliver, Dmytro Melnychuk, Sergiy Zibtsev, Johann Georg Goldammer, Volodymyr Gulidov. The Human Health Effects of Radioactive Smoke from a Catastrophic Wildfire in the Chernobyl Exclusion Zone: A Worst Case Scenario. In: "Earth bioresources and quality of life". – Vol.1. – N 1. – P. 1-34. (<a href="http://gchera-ejournal.nubip.edu.ua/index.php/ebql/issue/current/showToc">http://gchera-ejournal.nubip.edu.ua/index.php/ebql/issue/current/showToc</a> ).</p> |
| <p>Wei Min Hao, Oleg O. Bondarenko, Sergiy Zibtsev and Diane Hutton. Vegetation Fires, Smoke Emissions, and Dispersion of Radionuclides in the Chernobyl Exclusion Zone. In: Wildland Fires and Air Pollution, 2008. ISBN 978-0-08-055609-3 – P. 265-275.</p>                                                                                                                                                                                                                                                 |
| <p>Sviridenko V., Kirichok L., Zibtsev S., Kremenetska E., Tokareva O. Monitoring the structure and phytodiversity of a 160-year-old natural Scots pine forest in central Polissia, Ukraine: in Proceedings of the Conference "Natural Forests in the Temperate Zone of Europe - Values and Utilization", Mukachevo, October 13-17, 2003.</p>                                                                                                                                                                 |
| <p><b>Graduate Advisory Experience</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <p>4 PhD students (1 graduated), 9 Master students (8 graduated); National University of Life and Environmental Sciences.</p>                                                                                                                                                                                                                                                                                                                                                                                 |