



**Project
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**Global Fire
Monitoring
Center
(GFMC)**



**Regional
Eastern
European Fire
Monitoring
Center**



**National University
of Life and
Environmental
Sciences of Ukraine**



**Common
borders.
Common
solutions**



**Streams-2-
Suppress
Fires**

PROGRAM

of the International Conference
**"CURRENT STATUS OF FIRE RESEARCH AND FIRE MANAGEMENT
IN THE BLACK SEA AND EASTERN EUROPEAN REGION"**

and

IV workshop of the
EU INTERREG IV "Black Sea Basin Joint Operational Programme 2007-2013" project
**"UTILIZING STREAM WATERS IN THE SUPPRESSION OF FOREST FIRES WITH THE HELP
OF NEW TECHNOLOGIES"** ("STREAMS-2-SUPPRESS-FIRES")

7-10 September 2015 Hotel «Mozart», Lanzheronovskaya St. 13, Odessa, Ukraine
(<http://mozart-hotel.com/>)



Odessa, Ukraine - 2015



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Conference Organizers

National University of Life and Environmental Sciences of Ukraine (NULESU), Kyiv, Ukraine
Global Fire Monitoring Center, Freiburg, Germany
Regional Eastern European Fire Monitoring Center, Kyiv, Ukraine
Institute of Environmentally Safe Technologies of NULESU, Odessa, Ukraine

Organizing Committee

Ibatulin I.I., Head, First Vice-Rector of the National University of Life and Environmental Sciences of Ukraine
Lakyda P.I., Institute of Forestry and Landscape-Park Management, NULESU
Goldammer J.G., Global Fire Monitoring Center (GFMC)
Zibtsev S.V., Regional Eastern European Fire Monitoring Center
Domikan V.I., Odessa Oblast Forestry and Game Management Administration
Andronova A., Odessa State Oblast Administration
Tkachuk V.A., Center of the International Affairs, NULESU
Mazurenko I.K., Institute of Environmentally Safe Technologies, NULESU
Vasylyshyn R.D., Research Institute of Silviculture and Decorative Gardening, NULESU

Conference topics

1. Current state and results of fire research in the regions
2. Current problems and potential for improvement of fire management practices
3. The use of advanced and innovative technologies for improving fire management efficiency (results of the EU project in the Black Sea region will be presented).

Coordinators of the conference: Prof. Dr. Sergiy Zibtsev, National University of Life and Environmental Sciences of Ukraine / Regional Eastern European Fire Monitoring Center (REEFMC) (<http://nubip.edu.ua/en/reefmc>), +38 067 2611682, sergiy.zibtsev@nubip.edu.ua; Anatolii Borsuk, +38 097 4226002, anatoliy.borsuk@gmail.com.

INTRODUCTION

CHALLENGES FOR FIRE MANAGEMENT IN THE BLACK SEA AND EASTERN EUROPEAN REGIONS

By Prof. Dr. Dr.hc. mult. Johann Georg Goldammer, Global Fire Monitoring Center (GFMC)

The eastern region of temperate-boreal Eurasia (Eastern Europe, Southeast Europe, South Caucasus and Central Asia) have recently experienced unprecedented large and disastrous wildfires. These extreme fires are considered consequences of socio-economic, land-use and climate changes. Some recent wildfire episodes have revealed an increasing vulnerability of society to direct and secondary effects of fire; e.g. the impacts of fire smoke pollution on human health and security. While there have been advances in fire management in some countries, there are still barriers preventing the sharing of scientific and technical knowledge and good practice between wildfire agencies in different States. These barriers have resulted in some wildfire agencies being unintentionally excluded from the technical information and advancements that they could utilize to develop greater national resilience and preparedness for large wildfire incidents. It is often the lack of resilience of a State to manage its own wildfire situation that results in the need for unplanned international emergency assistance.

The cross-boundary consequences of wildfires can be significant, e.g. through transboundary transport of wildfire smoke pollutants, border-crossing wildfires, threats to common global assets such as biodiversity, terrestrial carbon pools, atmosphere and climate. In addition, if wildfires occur in a politically sensitive area this might become additional source of contention between countries and have a negative impact on the overall security situation in the region. Fires burning on terrain contaminated by unexploded ordnance and land mines - both remnants of previous conflicts - pose an additional threat to personnel involved in firefighting and civilians.

The willingness of nations is increasing to share expertise and resources in fire management. Specialists of member countries of the United Nations Economic Commission for Europe (UNECE) and the Organization for Security and Cooperation (OSCE) have expressed the need for developing voluntary principles and procedures on cross-border cooperation in fire management and thus enhance economics, inter-operability and effectiveness in fire management between nations and regions.

In order to allow a coordinated, systematic approach for international cooperation in fire management, the Global Fire Monitoring Center (GFMC), through its coordinated international groups, prepared the convention of the "UNECE/FAO Regional Forum on Cross-boundary Fire Management". While the scope of the Forum, which was co-sponsored by the OSCE and the Council of Europe, focused on the Eurasian part of the region, the participation of member states of North America (Canada, U.S.A.) in the preparatory work and by attending the Forum ensured the consideration of expertise from countries that are comparatively advanced in fire management capacity and in the development of cross-border agreements and bilateral protocols and coordinated international operating procedures in fire management. The main aim of the Forum was to elaborate recommendations to UNECE member states to build resilience of nations and communities within the UNECE region to wildfire emergencies and disasters by enhancing the national and collective regional fire management capability through international cooperation.

In the Black Sea region, most countries have not developed extensive fire management plans and have limited technical capacity for firefighting. To be able to face future forest fires, innovation in fire suppression that will also enhance the protection of natural areas as necessary. This will be accomplished by utilizing new technologies and developing a holistic and complete fire suppression system. This is the objective of the Streams-2-SUPPRESS-Fires project.

The International Scientific Conference "*Current Status of Fire Research and Fire Management in the Black Sea and Eastern European Region*" will provide an opportunity to discuss the follow-up of the UNECE / FAO Regional Forum with representatives from the Eastern European / Black Sea region. Furthermore, the experience of the OSCE in supporting countries of Eastern Europe, the West Balkans, South Caucasus and Central Asia in enhancing fire management capacities will be presented and discussed.

PROGRAM

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| 7 September. Arrival of participants | | |
| 8 September | | |
| 9:00–10:00 | Registration of the participants at the conference venue - Hotel «Mozart», Lanzheronovskaya St. 13, Odessa | |
| OPENING CEREMONY AND WELCOME TO THE PARTICIPANTS | | |
| 10:00–10:20 | Petro Lakyda | Director, Institute of Forestry and Landscape-Park Management, NULESU |
| | Yurij Sydoruk | Chief, Sector of the International Affairs, State Agency of Forest Resources of Ukraine |
| | Eugenia Volyniec | Head, Department of Foreign Activity and European Integration of the Odessa Oblast State Administration |
| | Johann G. Goldammer | Director, Global Fire Monitoring Center, Germany |
| | Mehmet Duman | President, Artvin Coruh University, Turkey |
| | Volodymyr Domikan | Chief, Odessa Oblast Forestry and Hunting Administration, Ukraine |
| | Orest Fok | Deputy Head, Odessa State Emergency Service, Ukraine |
| | George N. Zaimes | S2SF EU Project coordinator, Eastern Macedonia and Thrace Institute of Technology, Greece |
| 10:20–11:40 | SESSION I. REGIONAL COOPERATION IN FIRE MANAGEMENT IN THE BLACK SEA AND EASTERN EUROPEAN REGIONS Chair: Prof. Dr. Petro Lakyda | |
| 10:20–10:40 | Johann G. Goldammer, Global Fire Monitoring Center (GFMC) <i>Challenges for global and regional fire management in the region and needs for multilateral cooperation</i> | |
| 10:40–11:00 | G.N. Zaimes, S. Zibtsev, M. Tufekcioglu, D. Kaziolas, A. Tufekcioglu, R. Corobov, D. Emmanouloudis, R. Uratu, A. Ghulijanyan, A. Borsuk & I. Trombitsky, Black Sea S2SF Project <i>Wildfire Suppression in the Black Sea Region: New innovative tools</i> | |
| 11:00–11:20 | Sergiy Zibtsev, Institute of Forestry and Landscape-Park Management of NULESU / Regional Eastern European Fire Monitoring Center <i>Fire research and fire management in Ukraine: Overview and needs for development</i> | |
| 11:20–11:40 | Nikola Nikolov, Regional Fire Monitoring Center, FYROM <i>Regional Fire Monitoring Center: Activities and regional collaboration</i> | |
| 11:40–12:00 | Coffee break | |
| 12:00–14:00 | SESSION II. ROLE OF FIRE RESEARCH AND INNOVATIONS IN FIRE MANAGEMENT UNDER CONDITION OF CLIMATE AND SOCIO-ECONOMIC CHANGES Chair: Prof. Dr. Johann G. Goldammer | |
| 12:00–12:15 | Johann G. Goldammer, Global Fire Monitoring Center (GFMC) <i>New approaches and requirements for fire management in the South Eastern Europe, Black Sea and Caucasus regions</i> | |

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| 12:15–12:30 | Victor Myroniuk, NULESU <i>Remote sensing techniques for wildfire detection and burned area mapping</i> |
| 12:30–12:45 | Sergiy Chumachenko, Ukrainian Scientific Research Institute of Civil Protection <i>Use of modern technologies based on drones and wireless sensors networks for forest fires monitoring</i> |
| 12:45–13:00 | Vadim Bogomolov, URIFFM / REEFMC <i>Development of DSS of fire suppression in Ukraine</i> |
| 13:00–13:15 | Oleksandr Teslenko, Ukrainian Scientific Research Institute of Civil Protection <i>Using of crowdsourcing technologies for monitoring of fires in the Black Sea and Eastern European regions</i> |
| 13:15–13:30 | Viktor Shevchuk, Steppe Branch of Ukrainian Research Institute of Forestry and Forest Melioration <i>Forest fires in the stands of the sandy arena of the Lower Dnieper</i> |
| 13:30–14:00 | DISCUSSION |
| 14:00–15:00 | Lunch |
| 15:00–17:30 SESSION III. PRESENTATION OF THE RESULTS OF THE EU BLACK SEA PROJECT “UTILIZING STREAM WATERS IN THE SUPPRESSION OF FOREST FIRES WITH THE HELP OF NEW TECHNOLOGIES” Chair: Prof. Dr. George N. Zaimes | |
| 15:00–15:20 | G. N. Zaimes, D. Kaziolas, D. Emmanouloudis, Eastern Macedonia and Thrace Institute of Technology, Greece <i>Wildfire Suppression with new innovative tools in the Greek Pilot Area</i> |
| 15:20–15:40 | Sergiy Zibtsev, Anatolii Borsuk, NULESU / REEFMC, Ukraine <i>Application of new technologies for improving fire suppression in Ukrainian Pilot Area</i> |
| 15:40–16:00 | Roman Corobov, Eco-Tiras, Moldova <i>Activity GA6 as a logical continuation of the Project’s previous actions</i> |
| 16:00–16:30 | Coffee break |
| 16:30–16:50 | Aydin Tufekcioglu, Mustafa Tufekcioglu, Mehmet Yavuz, Artvin Coruh University, Turkey Locating the water reservoirs using weighted overlay analysis. |
| 16:50–17:10 | Andranik Ghulijanyan, Luiza Gevorgyan, "Zikatar Environmental Center" SNCO, Ministry of Nature Protection, Armenia <i>Status of fire research and fire management in Armenia</i> |
| 17:10–17:30 | Razvan Uratu, Prefect’s Institution, Braila County, Romania <i>Outlines of project implementation in Small Wetland of Braila.</i> |
| 17:30–18:00 FINAL DISCUSSION AND PREPARING OF THE STATEMENT | |
| 18:00–19:00 SESSION IV. S2SF BUSINESS MEETINGS | |
| 18:00–18:20 | Meeting of the Project Steering Committee of the S2SF Project |
| 18:20–18:40 | Meeting of the Project Financial Committee of the S2SF Project |
| 18:40–19:00 | Meeting of the Project Scientific Committee of the S2SF Project |

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| 19:00 | Reception |
| 9 September | |
| 09:00–19:00 | Field and city excursion |
| 14:00–15:00 | Lunch. |
| 19:00 | Farewell party |
| 10 September | Departure of participants |

Файл: Odessa_fire_seminar_program_7-10.09_15_Eng_15
Каталог: C:\DOCUME~1\Admin\LOCALS~1\Temp
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Data\Microsoft\Шаблоны\Normal.dot
Заголовок:
Содержание:
Автор: anatolii
Ключевые слова:
Заметки:
Дата создания: 31.08.2015 19:22:00
Число сохранений: 15
Дата сохранения: 01.09.2015 11:39:00
Сохранил: Sergiy Zibtsev
Полное время правки: 26 мин.
Дата печати: 01.09.2015 12:25:00
При последней печати
 страниц: 6
 слов: 1 890 (прибл.)
 знаков: 10 777 (прибл.)