



**FINAL PROGRAM**

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| <b>Monday, February 18, 2019 WORKSHOPS</b><br>Department of Geography, room 8002      |   |
| 0900-10:30  | <b>Dan Malkinson: Spatial analysis in R (part1)</b>   |
| 10:30-11:00   | Coffee break  |
| 11:00-12:30   | <b>Dan Malkinson: Spatial analysis in R (part 2)</b>  |
| 12:30-14:00   | Lunch Break   |
| 14:00-15:30   | <b>Pete Robichaud, U.S. FOREST SERVICE :Using the ERMiT and WEPP Cloud Tools for Predicting Soil Erosion (part 1)</b>   |
| 15:30-16:00   | Coffee break  |
| 16:00-17:30   | <b>Pete Robichaud, U.S. FOREST SERVICE: Using the ERMiT and WEPP Cloud Tools for Predicting Soil Erosion (part 2)</b>   |
| 18:00   | Reception at the Department of Geography, University of Haifa   |
| <b>Tuesday, February 19, 2019</b><br>Edmond Safdie Auditorium, Multi-Purpose Building |   |
| 08:30-09:30   | Registration and panel organization   |
| 09:30-10:00   | <b>Open ceremony</b><br>Prof. Ido Izhaky, Vice President and Dean of Research<br>Prof. Shlomit Paz, Head of Department of Geography<br>Prof. Xavi Úbeda -what is FESP?  |
| 10:00-11:10   | <b>Forests and fires - the Israeli perspective (solicited)</b><br><b>Chairperson: Lea Wittenberg</b><br>1) <i>Yehoshua Shkedy</i> : Israel National and Parks Authority<br>2) <i>Omri Bone</i> : Keren Kayemeth Lelsrael-Jewish National Fund |
| 11:10-11:30   | Coffee break  |



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| 11:30-12:30 | <b>Conference Key lecture</b><br><i>Robichaud P.R., Massman W.J., Bova A., Girona García A.:</i> Modeling Soil Heating and Moisture Flux During Prescribed Fires and Wildfires  |
| 12:30-14:00 | <b>LUNCH</b>  |
| 14:00-15:45 | <b>Session 1: Fire effects on soil and ash properties 1</b><br><b>Chairperson: Xavi Úbeda</b><br><br>1) <i>Pereira P., Brevik E., Bogunovic I., Estebaranz F., Francos M., Ubeda X.:</i> Ash and soils. A close relationship in fire affected areas (Solicited)<br>2) <i>Hamza S.A.:</i> Effects of wildfire temperature and combustion matter on the physical, morphological and mineralogical properties of the ash<br>3) <i>Sayegh J. and Ben-Hur M.:</i> Effects of forest fires on structure and hydraulic properties of soils with different mineralogy<br>4)   |
| 15:45-16:15 | Coffee break  |
| 16:15-18:00 | <b>Session 2: Fire effects on soil properties 2</b><br><b>Chairperson: Artemi Cerdà</b><br><br>1) <i>Yu Y., Thurman M., Ferrer I., Thorn K., Retuta A., Rosario-Ortiz F.:</i> Thermal transformation and mobilization of soil organic matter by wildfires<br>2) <i>Dymov A.:</i> Impact of surface running fires at boreal forest on soils and soil organic matter (European Northeast of Russia)<br>3) <i>Girona-García A., Ortiz-Perpiñá O., Martí-Dalmau C., Badía-Villas D.:</i> Changes in soil organic C and related biological properties after prescribed burning of shrublands for pasture restoration in the Central Pyrenees (NE-Spain)<br>4) <i>Úbeda X., Alcañiz M., Borges G., Francos M., Outeiro L.:</i> Soil quality of old agricultural terraces managed with prescribed fires and livestock in the municipality of Capafonts, Catalonia, Spain (2000-2017)<br>5) <i>Francos M., Herranz X., Pereira P., Stefanuto E.B., Úbeda X.:</i> Effects of grazing cattle on soil properties after a wildfire. 2 years case study in NE Spain. |
| 18:00-18:30 | <b>Posters and snacks</b>   |
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**Wednesday, February 20, 2019**

Edmond Safdie Auditorium, Multi-Purpose Building

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| 09:00-10:40 | <p><b>Session 3: Fires in the (ancient) environment</b><br/><b>Chairperson: Moshe Inbar</b></p> <p>1) <i>Lewis R.</i>: Stones and fire: Landscape Archaeology and the management of fire episodes in antiquity.</p> <p>2) <i>Thomaz E.L.</i>: Fire in the Brazilian Amazon and dynamics of aggregate stability in slash-and-burn system</p> <p>3) <i>Fachin P.A. and Thomaz E.L.</i>: Soil physical-chemical dynamics along a chronosequence with slash-and-burn agriculture</p> <p>4) <i>de Assumpção C.R.B., Köster K., Heinonsalo K., Pumpanen J., Berninger F., Metslaid M., Jögiste K., Orumaa A.</i>: Changes in Extracellular Enzyme Activities, and CO<sub>2</sub> emissions Across Fire Chronosequence in an Estonian Hemiboreal Forest</p> <p>5) <i>Herold C., Renan I., Dayan T.</i>: Effects of fire on the arthropod community in Kfira National Park</p>   |
| 10:40-11:00 | Coffee Break   |
| 11:00-12:50 | <p><b>Session 4: Modelling and Remote Sensing in Fire studies</b><br/><b>Chairperson: Anna Brook</b></p> <p>1) <i>Ben Dor E., Granot A., Wallach R.</i>: A new Optical and Portable Accessory to Measure Soil Hydrophobicity in the Field (Solicited)</p> <p>2) <i>Friedlander L., Maman S., Weisbrod N., Blumberg D.</i>: Differentiating Ash Contaminated by Trace Metals Using Field Spectroscopy and Remote Sensing</p> <p>3) <i>Ursino, N.</i>: Dynamic models for fire regimes in changing environments (Solicited)</p> <p>4) <i>Shoshani M, Roitberg, E.</i>: The response of shrubland patterns' properties to rainfall changes and to the catastrophic removal of plants in semi-arid regions predicted by Reaction-Diffusion simulations (Solicited)</p> <p>5) <i>Michael Y., Lensky I.M., Brenner S., Helman D., Glickman O., Gabay D.</i>: Using decomposed MODIS NDVI time series to improve wildfire risk mapping in Mediterranean forests</p> |
| 12:50-14:15 | Lunch  |
| 14:15-14:30 | New book - <i>FIRE EFFECTS ON SOIL PROPERTIES</i> - Paulo Pereira  |
| 14:30-15:30 | <p><b>Session 5: WUI Fires and Management</b><br/><b>Chairperson: Antonio Vieira</b></p> <p>1) <i>Fox D.M., Guyot, R., Genin J-R., Garbolino E (Solicited)</i>: Characterizing fires and fire history in the Wildland Urban Interface of south-east France</p>   |

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|                | <p>2) <i>Tessler N., Borger H., Rave E., Argaman E., Wittenberg L., Kopel D., Brok A., Elkabets E., Abbas S., Vig B., Machmud H., Levi A., Baron E.</i>: Geomorphological restoration of steep slopes in the "Shazar-Dakar" urban forest, Haifa, Israel</p> <p>3) <i>Polinova M., Wittenberg L., Kutiel J., Brook A.</i>: Fire behavior modeling on urban area: Haifa case study</p>  |
| 15:30-16:00    | Coffee Break  |
| 16:00-17:45    | <p><b>Session 6 Post fire effects: erosion and hydrology</b><br/><b>Chairperson: Haim Kutiel</b></p> <p>1) <i>Vieira A.</i>: The role of rainfall frequency and magnitude on soil erosion in burnt areas</p> <p>2) <i>Greenbaum N., Wittenberg L., Malkinson D., Inbar, M.</i>: Post- 2010 forest fire hydrological and sedimentological changes in the Upper Nahal Oren Basin, Mt. Carmel Israel - a comparison to pre-fire natural rates.</p> <p>3) <i>Vieira D.C.S., Lopes A.R., Corticeiro S., Serpa D., Keizer J.</i>: Predicting post-fire soil erosion and its mitigation in Maritime Pine stands</p> <p>4) <i>Culler E., Brucker C., Abolafia-Rosenzweig R., Livneh B., Tiampo K., Minear T., Rosario-Ortiz F.</i>: Post-fire impacts on landslides and sedimentation</p> <p>5) <i>Zituni R., Wittenberg L., Malkinson, D.</i>: The effects of post-fire forest management on soil erosion rates 3 and 4 years after a wildfire, demonstrated on the 2010 Mt. Carmel fire</p> |
| 17:45-18:00    | Coffee Break  |
| 18:15-19:00    | <p><b>Summary session - NEXT FESP</b></p> <p>Prof. Ant3nio Vieira: FESP-IN Network</p> <p>Prof. Paulo Pereira: Introducing FESP8</p>  |
| 20:00          | DINNER at DUZAN restaurant  |
| <b>POSTERS</b> | <p>1) <i>Ackermann O., Roskin J., Khalaily H., Yegorov D., Vardi J.</i> The Motza mega-site: Initial ge archaeological finds of an extensive PPNB burnt subsurface in the Jerusalem Hills, Israel</p> <p>2) <i>Bergman N., Greenbaum N., Beeri-Shlevin Y., Glassman H., Nusboim S., Unger S., Rimmer A.</i>: Pre- and post-fire differences in suspended sediment values from a riparian Delta forest in the Majrase Nature Reserve, NE Sea of Galilee, Israel</p> <p>3) <i>Keizer J.J., Vieira A., Gonzalez-Pelayo O., Campos I., Corticeiro S., Lopes A., Vieira D.</i>: The role of crown consumption, ecosystem functional unit and soil burn severity in wildfire ash loads of two contrasting Maritime Pine stands in north-central Portugal</p>  |



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|                                    | <p>4) Keizer J.J., Gonzalez-Pelayo O., Corticeiro S., Lopes A., Foresta S., Baron C., Martins M., Prats S., Valente S., Vieira D.: Field demonstration experiments of post-fire erosion and its mitigation in north-central Portugal following the Pedrogão-Goís wildfire</p> <p>5) Keizer J.J., Oliveira B.R.F., Foken T., Campos I., Carreira J.P., Cerqueira M., Gonzalez-Pelayo O., Jesus C., Maia P., Martins M., Miroto A., Pereira L.M.G., Pinto G., Pio C., Vieira A., Vieira D.C.S.: Indirect effects of wildfires on carbon budgets and fluxes</p> <p>6) Pereira P., Telak L.J., Bogunovic I., Kisic I.: Moderate Wildfire severity impacts on soil properties in a shrubland located in Dalmatia (Croatia): First results</p> |
| <b>Thursday, February 21, 2019</b> |  |
| 08:30-19:00                        | <b>FIELDTRIP</b>   |