



# World Conference on **Forests for Public Health**

8-11 May 2019

Athens War Museum  
Greece

[www.fph2019.org](http://www.fph2019.org)



**Under the Auspices of  
H.E. the President of the Hellenic Republic Mr. Prokopios Pavlopoulos**

**Scientific Program**

**PROGRAM OVERVIEW****Wednesday 8 May 2019**

10:00 - 12:00	<b>Walking in the Athens National Garden</b>
12:00 - 18:00	<b>Registrations</b>
18:00 - 20:00	<b>Opening ceremony and Welcome by local and international authorities</b> <i>Coordinator: Dr. Christos Th. Gallis, Greece</i>
	<b>Introductory speech by the President of the Conference</b> <b>"From Hippocrates to Forests for Public Health: A Global Innovative Prospective"</b> <i>Dr. Christos Th. Gallis</i>
	<b>World Health Organization (WHO)</b> <b>"Forests for Public Health and WHO"</b> <i>Dr. Marco Martuzzi, WHO</i>
	<b>Keynote Lectures</b> <b>"The further evolution of restorative environments theory: Integration, elaboration, extension"</b> <i>Prof. Terry Hartig - Sweden</i> <b>"Forest for Public Health and Welfare: Introduction to Forest Policy in Korea"</b> <i>Prof. Won Sop Shin - S. Korea</i>
20:00	<b>Welcome cocktail</b>

**Thursday 9 May 2019**

08:30 - 09:15	<b>Keynote Lecture 1.1</b> <b>"Introduction of Forest Medicine-Effects of Forest Bathing/Shinrin-Yoku on human health"</b> <i>Dr. Qing Li - Japan</i> <i>Session Chair: Bum-Jin Park - S. Korea</i>
09:15 - 10:30	<b>Oral Presentations 1.1 - Forest Medicine, Forest therapy, Health Policies, practices, economics and culture of Forests for Public Health</b> <i>Session Chairs: Bum-Jin Park - Korea, Qing Li - Japan</i>
10:30 - 11:00	<b>Coffee break</b>
11:00 - 12:30	<b>Oral Presentations 1.2 - Mental Health benefits of exposure to Nature</b> <i>Session Chairs: Kalevi Korpela - Finland, Terry Hartig - Sweden</i>
12:30 - 13:30	<b>Lunch break</b>
13:30 - 14:15	<b>Keynote Lecture 1.2</b> <b>"Outdoor recreation and nature tourism for public health"</b> <i>Prof. Liisa Tyrväinen - Finland</i> <i>Session Chair: Liz O'Brien - UK</i>
14:15 - 15:15	<b>Oral Presentations 1.3 - Planning physical activities and human recreation in Forest/Natural environment for Public health</b> <i>Session Chairs: Patrik Grahn - Sweden, Ulrika Stigsdotter - Denmark</i>
15:15 - 15:45	<b>Coffee break</b>
15:45 - 17:15	<b>Oral Presentations 1.4 - Mental Health benefits of exposure to Nature</b> <i>Session Chairs: Kalevi Korpela - Finland, Terry Hartig - Sweden</i>

<b>Friday, 10 May 2019</b>	
08:30 - 09:15	<b>Keynote Lecture 2.1</b> <b>“Urban Forest-based solutions for Health: opportunities and threats of Doctor Green in our future cities”</b> <i>Prof. Fabio Salbitano - Italy</i> <i>Session Chair: Laura Jackson - USA</i>
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14:45 - 17:00	<b>Oral Presentations 2.4 - Urban forestry and Green space planning and design for physical activity</b> <i>Session Chairs: Dongying Li - USA, William C. Sullivan - USA</i>
17:00 - 17:15	<b>Coffee break</b>
17:15 - 18:45	<b>Oral Presentations 2.5 - Forest Medicine, Forest therapy, Health Policies, practices, economics and culture of Forests for Public Health</b> <i>Session Chairs: Won Sop Shin - S. Korea, Christos Th. Gallis - Greece</i>
18:45 - 19:00	<b>Closing of the Conference - Awards - Closing Ceremony</b> <i>Chair: Dr. Christos Th. Gallis</i>
19:30	<b>Farewell Dinner</b>

E-Posters will be available in large screens, on a rotating basis.

Delegates will be able to access any e-Poster of their choice at any time and as often as they want, during the Conference.

<b>Saturday, 11 May 2019</b>	
08:30 - 18:30	<b>Conference Official Scientific and Cultural All day Tour to Epidaurus Area</b>



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09:15 - 09:30	<b>EFFECTS OF RELAXATION IN THE FOREST MEDICINE PROGRAM OF THE MEDICAL SPA ASSOCIATION - CASE STUDY OF ROGAŠKA SLATINA, SLOVENIA</b> <i>Gorana Isailovic</i>
09:30 - 09:45	<b>FOREST THERAPY: AN INTERVENTION FOR ADULTS WHO ARE EXPERIENCING STRESS</b> <i>Shirley Gleeson</i>
09:45 - 10:00	<b>FOREST HEALING EFFECTS OF ADOLESCENTS USING PHYSIOLOGICAL INDICATORS</b> <i>Sujin Park</i>
10:00 - 10:15	<b>THE STATUS QUO AND PROSPECT OF FOREST THERAPY DEVELOPMENT IN BEIJING</b> <i>Jiangang Zhu</i>
10:15 - 10:30	<b>NATIONAL HEALTH SERVICE GREENSPACE IN SCOTLAND: OPPORTUNITIES, BENEFITS AND CHALLENGES IDENTIFIED BY HEALTH SECTOR STAFF</b> <i>Liz O'brien</i>
10:30 - 11:00	<b>Coffee break</b>

11:00 - 12:30	<b>Oral Presentations 1.2 - Mental Health benefits of exposure to Nature</b> <i>Session Chairs: Kalevi Korpela - Finland, Terry Hartig - Sweden</i>
11:00 - 11:15	<b>PHYSICAL ACTIVITY OUTDOORS AS A MECHANISM LINKING MENTAL HEALTH AND RESIDENTIAL GREEN AND BLUE SPACES IN ENGLAND</b> <i>Tytti Pasanen</i>
11:15 - 11:30	<b>GENDER DIFFERS IN STRESS REDUCTION IN AN URBAN VR PARK: REGARDLESS ALTERED SOUNDSCAPES</b> <i>Marcus Hedblom</i>
11:30 - 11:45	<b>CLINICAL AND DESIGN APPROACH FOR ASSESSING THE BENEFITS OF THE HORTICULTURE THERAPY PROGRAMME IN THE BELGRADE BOTANICAL GARDEN</b> <i>Maja Vujčić Trkulja</i>
11:45 - 12:00	<b>A REMEDY FOR A DISEASE THAT IS NEEDED: THE EFFECTS OF FOREST THERAPY PROGRAM ON MENTAL HOSPITAL PATIENTS</b> <i>Ernest Bielinis</i>
12:00 - 12:15	<b>EXPOSURE TO NATURE AND CHILDREN WITH AUTISM SPECTRUM DISORDER</b> <i>Dongying Li</i>
12:15 - 12:30	<b>ASSOCIATIONS BETWEEN NEIGHBORHOOD NATURAL FEATURES AND DEPRESSION: A U.S. NATIONAL ANALYSIS</b> <i>Wei-Lun Tsai</i>
12:30 - 13:30	<b>Lunch break</b>
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14:15 - 14:30	<b>FORESTS AND OTHER NATURE AREAS AS AN ENVIRONMENT FOR PHYSICAL ACTIVITY: CASE STUDY FROM HELSINKI</b> <i>Marjo Neuvonen</i>
14:30 - 14:45	<b>MAINSTREAMING A FOREST BASED PHYSICAL ACTIVITY PILOT PROGRAMME: RESULTS AND LESSONS FROM THE ACTIVE FOREST PROGRAMME IN ENGLAND</b> <i>Liz O'brien</i>
14:45 - 15:00	<b>THE NOTION OF "WILDERNESS"</b> <i>Kerstin Ensinger</i>
15:00 - 15:15	<b>URBAN FORESTS CONTRIBUTING TO PHYSICAL ACTIVITY OF RESIDENTS IN HELSINKI, FINLAND</b> <i>Liisa Tyrväinen</i>
15:15 - 15:45	<b>Coffee break</b>
15:45 - 17:15	<b>Oral Presentations 1.4 - Mental Health benefits of exposure to Nature</b> <i>Session Chairs: Kalevi Korpela - Finland, Terry Hartig - Sweden</i>
15:45 - 16:00	<b>SHORT-TERM EXPOSURE TO THE NATURAL ENVIRONMENT AND DEPRESSIVE MOOD: A SYSTEMATIC REVIEW AND META-ANALYSIS</b> <i>Hannah Roberts</i>
16:00 - 16:15	<b>INVESTIGATING PREDICTORS OF THE RESTORATIVE EFFECTS OF VISITING A FOREST</b> <i>Markus Schwab</i>
16:15 - 16:30	<b>DO DIFFERENT SCHOOL ENVIRONMENTS EFFECT MENTAL HEALTH OF PUPILS?</b> <i>Brigitte Alex</i>
16:30 - 16:45	<b>THE EFFECTIVENESS OF THERAPEUTIC RECREATION ON VISITORS' STRESS LEVEL IN SKYTREX ADVENTURE SHAH ALAM, SELANGOR</b> <i>Nor Akmar Abdul Aziz</i>

16:45 - 17:00	<b>EFFECTS OF VEGETATION EXPOSURE ON THE WELL-BEING OF URBAN INHABITANTS</b> <i>Cinnamon Dobbs</i>
17:00 - 17:15	<b>HEART RATE VARIABILITY MEASURES AND MENTAL STATE TESTS IN NATURE AND LANDSCAPE PERCEPTION ASSESSMENT WITH RESPECT TO RECREATION AND HEALTH BENEFITS</b> <i>Patrick Planteur</i>

## Friday, 10 May 2019

08:30 - 09:15	<b>Keynote Lecture 2.1</b> <b>“Urban Forest-based solutions for Health: opportunities and threats of Doctor Green in our future cities”</b> <i>Prof. Fabio Salbitano - Italy</i> <i>Session Chair: Laura Jackson - USA</i>
09:15 - 10:30	<b>Oral Presentations 2.1 - Urban Forests and their ecosystem services for Public Health</b> <i>Session Chairs: Kim Kyongha - S. Korea, Francisco Javier Escobedo - Colombia</i>
09:15 - 09:30	<b>POTENTIALS FOR PROMOTING HEALTH EQUITY THROUGH URBAN FORESTRY: A NATIONAL STUDY OF HISTORICAL INFLUENCES ON TREE CANOPY AND AIR QUALITY IN US CITIES</b> <i>Sima Namin</i>
09:30 - 09:45	<b>RESIDENT’S ATTITUDES TOWARDS POTENTIAL GREEN AREAS INFLUENCE ON THEIR HEALTH – CASE OF THE CITY OF BELGRADE</b> <i>Jelena Tomićević-Dubljević</i>
09:45 - 10:00	<b>U.S. ENVIROATLAS PROVIDES FINE-SCALE INDICATORS OF ECOSYSTEM SERVICES FOR PUBLIC HEALTH AND WELL-BEING</b> <i>Laura Jackson</i>
10:00 - 10:15	<b>PLANT ALLERGENS: ONE OF THE MAJOR ECOSYSTEM DISSERVICES OF URBAN FORESTS WITH IMPACT ON HUMAN HEALTH</b> <i>Paloma Cariñanos</i>
10:15 - 10:30	<b>EXPLORING THE IMPACT OF THE RELATIVE ABUNDANCE OF ALLERGENIC TREES IN FORESTS ON HEALTH-RELATED ECOSYSTEM SERVICES AND DISSERVICES</b> <i>Michiel Stas</i>
10:30 - 11:00	<b>Coffee break</b>
11:00 - 12:00	<b>Oral Presentations 2.2 - Urban Forests and their ecosystem services for Public Health</b> <i>Session Chairs: Liisa Tyrväinen - Finland, Francisco Javier Escobedo - Colombia</i>
11:00 - 11:15	<b>DISTINCT ECOSYSTEM SERVICES MAY EXERT PROTECTIVE INFLUENCES ON RATES OF AUTISM VS. SUDDEN UNEXPLAINED DEATH</b> <i>Laura Jackson</i>
11:15 - 11:30	<b>SPORTS EVENTS IN THE FORESTS AROUND WARSAW AND GDAŃSK - COMPARATIVE ANALYSIS</b> <i>Emilia Janeczko</i>
11:30 - 11:45	<b>RELATIONSHIP WITH NATURE, VISITS TO GREEN AREAS AND WELL-BEING</b> <i>Ann Ojala</i>
11:45 - 12:00	<b>AN INNOVATIVE NATURE INTEGRATION PROGRAMME FOCUSED ON INDIGENOUS SWEDES AND MIGRANTS: IMPACTS ON HEALTH AND WELLBEING</b> <i>Anna María Pálsdóttir</i>
12:00 - 13:00	<b>Lunch break</b>

<b>13:00 - 14:30</b>	<b>Oral Presentations 2.3 - Urban Forests and their ecosystem services for Public Health</b> <i>Session Chairs: Kim Kyongha - S. Korea, Liisa Tyrväinen - Finland</i>
<b>13:00 - 13:15</b>	<b>DOES GREENSPACE MITIGATE AIR POLLUTION AND MOTIVATE PHYSICAL ACTIVITY?: A CASE STUDY OF FOUR EUROPEAN CITIES</b> <i>Will Mueller</i>
<b>13:15 - 13:30</b>	<b>NURTURING URBAN FORESTS FOR ENVIRONMENTAL SUSTAINABILITY, HEALTH SECURITY AND SOCIAL COHESION IN NIGERIA</b> <i>Ekeoba Isikhuemen</i>
<b>13:30 - 13:45</b>	<b>URBAN FORESTRY IN MITIGATING HEALTH HAZARDS DUE TO PARTICULATE MATTER POLLUTION AND URBAN HEAT ISLANDS IN NEW DELHI, INDIA</b> <i>Rajesh S Kumar</i>
<b>13:45 - 14:00</b>	<b>HOW DO URBAN FORESTS INFLUENCE MENTAL HEALTH AND WELL-BEING? AN EXAMINATION OF MECHANISMS</b> <i>Melissa Marselle</i>
<b>14:00 - 14:15</b>	<b>A STUDY FOR MANAGING KOREAN URBAN FORESTS TO ENHANCE URBAN RESIDENTS' HEALTH AND MEET THEIR ACTIVITY DEMAND</b> <i>Hyun Deok Seok</i>
<b>14:15 - 14:30</b>	<b>PERI-URBAN VERSUS NON-URBAN FORESTS: VISITORS' BEHAVIOURS AND PREFERENCES IN CENTRAL ITALY</b> <i>Isabella De Meo</i>
<b>14:30 - 14:45</b>	<b>Coffee break</b>
<b>14:45 - 17:00</b>	<b>Oral Presentations 2.4 - Urban forestry and Green space planning and design for physical activity</b> <i>Session Chairs: Dongying Li - USA, William C. Sullivan - USA</i>
<b>14:45 - 15:00</b>	<b>EARLY CHILDHOOD ADAPTIVE MICROFORESTS AS A HEALTH PROMOTION STRATEGY: A SYSTEM-CHANGE APPROACH</b> <i>Robin Moore</i>
<b>15:00 - 15:15</b>	<b>DURATION OF ACTIVITY IN VARIOUS PARK ENVIRONMENTS AND PSYCHOLOGICAL BENEFITS AMONG OLDER ADULTS: A GPS TRACKING STUDY</b> <i>Dongying Li</i>
<b>15:15 - 15:30</b>	<b>RECREATIONAL USES OF URBAN GREEN INFRASTRUCTURE: THE TOURIST'S PERSPECTIVE</b> <i>Theano S. Terkenli</i>
<b>15:30 - 15:45</b>	<b>THE IMPACT OF URBAN PRIVATE GREEN SPACE ON HEALTH AND WELL-BEING: A SCOPING REVIEW</b> <i>Grete Patil</i>
<b>15:45 - 16:00</b>	<b>EFFECTS OF URBAN GREEN SPACE ON HEAT-RELATED VULNERABILITY: A METHODOLOGY BASED ON THE INTEGRATION OF CENSUS AND REMOTE SENSING DATA</b> <i>Elena Barbierato</i>
<b>16:00 - 16:15</b>	<b>ON THE QUALITIES OF A FOREST IN UPPER AUSTRIA, SPECIAL SITES THEREIN, AND THESE OF THE CONNECTING PATH</b> <i>Renate Cervinka</i>
<b>16:15 - 16:30</b>	<b>HOW ROBUST ARE RELATIONSHIPS BETWEEN STREET GREENERY AND FITNESS MEASURES ACROSS DIVERSE COMMUNITIES?</b> <i>Wei-Lun Tsai</i>
<b>16:30 - 16:45</b>	<b>RESTORATION EFFECTS IN DIFFERENTLY MANAGED FORESTS</b> <i>Jenni Simkin</i>
<b>16:45 - 17:00</b>	<b>INFLUENCE OF GREEN SPACE ON THE EFFECTS OF AIRBORNE PARTICULATE MATTER ON HOSPITALIZATION IN THE UNITED STATES</b> <i>Seulkee Heo</i>
<b>17:00 - 17:15</b>	<b>Coffee break</b>

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17:15 - 17:30	<b>EVALUATION AND PLANNING OF PRIVATE FOREST THERAPY BASES IN TAIWAN</b> <i>Shyue-Cherng Liaw</i>
17:30 - 17:45	<b>THE POLICY PROGRAMME "GREEN CARE FOREST" IN AUSTRIA AS A SOCIAL INNOVATION FOR HEALTH SERVICES</b> <i>Alice Ludvig</i>
17:45 - 18:00	<b>A PRELIMINARY REVIEW OF FOREST CARE INITIATIVES FOR HEALTH IN ITALY: IDENTIFYING MODELS AND SUCCESS FACTORS</b> <i>Ilaria Doimo</i>
18:00 - 18:15	<b>"FOREST AS A WOMB OR MOUNTAIN BIKE TRAIL" – PLACE PERCEPTION OF INDIVIDUALS. A PRESENTATION OF EMPIRICAL RESULTS</b> <i>Sibylle Roth</i>
18:15 - 18:30	<b>FOREST THERAPY GROUP INTERVENTION FOR EXHAUSTION DISORDER, ANXIETY AND DEPRESSION</b> <i>Petra Ellora Cau-Wetterholm</i>
18:30 - 18:45	<b>A BREATH OF FRESH AIR? EXAMINING THE USE OF THE OUTDOORS AS A SETTING FOR COUNSELLING AND PSYCHOTHERAPY: AN ECOLOGICAL DYNAMICS ANALYSIS</b> <i>Victoria White</i>
18:45 - 19:00	<b>Closing of the Conference - Awards - Closing Ceremony</b> <i>Chair: Dr. Christos Th. Gallis</i>
19:30	<b>Farewell Dinner</b>

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## Saturday, 11 May 2019

08:30 - 18:30	<b>Conference Official Scientific and Cultural All day Tour to Epidaurus area and to Ancient Asclepeion.</b>
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**E-POSTERS PRESENTATIONS****1. Forest Medicine, Forest therapy, Health Policies, practices, economics and culture of Forests for Public Health.****THE THERAPEUTIC CONTRIBUTION OF FORESTS TO REHABILITATION CLINICS IN BAVARIA****L. Friedmann<sup>1</sup>, A. Gaggermeier<sup>1</sup>, M. Suda<sup>1</sup>**<sup>1</sup>*Technical University Munich, Germany***FOREST BATHING COMBINED WITH TRADITIONAL KNEIPP THERAPY AS A NEW PUBLIC HEALTH APPROACH IN GERMANY****G. Immich<sup>1</sup>, A. Schuh<sup>1</sup>**<sup>1</sup>*Chair of Public Health and Health Services Research (IBE), Ludwig Maximilian University, 81377 Munich, Germany***SHINRIN YOKU – A QUALITATIVE DESCRIPTIVE DEFINITION OF TERMS BASED ON A SEMANTIC CONTENT ANALYSIS****J.A. Jungmair<sup>1</sup>, A. Arnberger<sup>2</sup>, S. Pöchtrager<sup>1</sup>**<sup>1</sup>*University of Natural Resources and Life Science, Institute for Marketing and Innovation Vienna, Austria*<sup>2</sup>*University of Natural Resources and Life Science, Institute for Landscape Development, Recreation and Conservation Planning, Vienna, Austria***EFFECTS OF FOREST AND NATURE ON OLDER PEOPLE: A SYSTEMATIC REVIEW****J. Kim<sup>1</sup>, W.S. Shin<sup>2</sup>**<sup>1</sup>*Department of Forestry Therapy, Chungbuk National University, Cheongju, South Korea*<sup>2</sup>*Department of Forest, Chungbuk National University, Cheongju, South Korea***FOREST THERAPY PROGRAM ASSOCIATED WITH TKM TO PREVENT COGNITIVE DECLINE FOR THE ELDERLY****J. Yi<sup>1,2</sup>, T. Khil<sup>1,2</sup>, Y. Lim<sup>1,2</sup>, M. Shin<sup>2</sup>, S. Jeon<sup>2</sup>, J. Shin<sup>1</sup>, B. Kang<sup>1</sup>, J. Kim<sup>1</sup>, B.Y. Kim<sup>1</sup>, J.E. Lee<sup>1</sup>, A.Y. Jeong<sup>2</sup>, B. Ku<sup>3</sup>, G. Kim<sup>3</sup>, J.H. Park<sup>3</sup>, J. Choi<sup>4</sup>, W. Cha<sup>4</sup>, C. Shin<sup>1</sup>, W. Shin<sup>1</sup>, J.U. Kim<sup>3</sup>**<sup>1</sup>*Chungbuk National University, Seowon-gu, Cheongju, Chungbuk, Republic of Korea*<sup>2</sup>*Forestopia, Seowon-Gu, Cheongju, Chungbuk, Republic of Korea*<sup>3</sup>*Korea Institute of Oriental Medicine, Yuseong-gu, Daejeon, Republic of Korea*<sup>4</sup>*Human Anti-Aging Standards Research Institute, Uiryeong-gun, Gyeongsangnam-do, Republic of Korea***PRELIMINARY ANALYSIS OF PSYCHOLOGICAL AND PHYSIOLOGICAL BENEFITS FOR FOREST THERAPY IN TAIWAN****S.C. Liaw<sup>1</sup>, W.M. Hsieh<sup>1</sup>**<sup>1</sup>*Department of Geography, National Taiwan Normal University, Taiwan***THE ROLE OF CERTIFIED PHYSICIAN IN FOREST MEDICINE OF INFOM IN JAPAN****H. Ochiai<sup>1</sup>, M. Imai<sup>2</sup>, Q. Li<sup>3</sup>, Y. Takase<sup>4</sup>, T. Ochiai<sup>5</sup>**<sup>1</sup>*Department of Plastic and Reconstructive Surgery, National Hospital Organization Tokyo Medical Center, Japan*<sup>2</sup>*PrINFOM, Tokyo, Japan*<sup>3</sup>*Department of Rehabilitation and Physical Medicine, Graduate School of Medicine, Nippon Medical School, Tokyo, Vice-President and Secretary General of INFOM, Tokyo, Japan*<sup>4</sup>*General Manager of INFOM, Tokyo, Japan*<sup>5</sup>*Forest Baubiologie Studio Inc. CEO, Tokyo, Japan***THE EFFECTS OF FOREST HEALING PROGRAMS ON CHILDREN AT RISK****J.Y. Hong<sup>1</sup>, S.J. Park<sup>1</sup>**<sup>1</sup>*Forest Welfare Division, Forest Policy and Economics Department, National Institute of Forest Science, Republic of Korea***THE INFLUENCE OF A FOREST EDUCATION PROGRAM ON FAMILY STRENGTH****S.Y. Jeong<sup>1</sup>, Y.H. Lee<sup>1</sup>, S.J. Park<sup>1</sup>**<sup>1</sup>*Forest Welfare Division, Forest Policy and Economics Department, National Institute of Forest Science, Republic of Korea*

### COMMUNITY AS KNOWLEDGE BUILDING AND SHARING SPACE IN FOREST THERAPY METHOD DEVELOPMENT AND PRACTICAL USE

P.E. Cau Wetterholm<sup>1</sup>, I. Banyard<sup>2</sup>, K. Berry<sup>3</sup>, L. Desmet<sup>4</sup>, K. Kilpi<sup>5</sup>, H. Korhonen<sup>6</sup>, S. Malve-Ahlroth<sup>7</sup>, I. Nygårdsvik<sup>8</sup>, H. Ohlsson<sup>9</sup>, S. Malmieniemi<sup>10</sup>, V. Povilaityte-Petri<sup>11</sup>, I. Simoens<sup>12</sup>

<sup>1</sup>Vidar Primary Health Care Service, Järna, Sweden; Shinrin-Yoku Sweden, Certified guide by Association of Nature and Forest Therapy

<sup>2</sup>Cotswold Natural Mindfulness, United Kingdom

<sup>3</sup>Stonewylde, Dorset, United Kingdom

<sup>4</sup>Actif Coaching, Belgium

<sup>5</sup>Department of Work Science, Business Economics and Environmental Psychology, Swedish University of Agricultural Sciences, SLU, Sweden

<sup>6</sup>Co-Founder of Forest Therapy Days, Finland

<sup>7</sup>Department of Work Science, Business Economics and Environmental Psychology, Swedish University of Agricultural Sciences, SLU, Sweden

<sup>8</sup>Spekulatoriet as, Norway

<sup>9</sup>PhD Candidate, Södertörn University, Stockholm, Sweden

<sup>10</sup>OMSc, University of Jyväskylä, Finland

<sup>11</sup>Université Libre de Bruxelles, Belgium

<sup>12</sup>Instituut voor Natuur- en Bosonderzoek, Brussels, Belgium

### A STUDY ON THE AWARENESS OF FOREST DWELLERS ABOUT NORTH OF FOREST OF IRAN (CASE STUDY: BALIRAN VILLAGE OF AMOL)

A. Sheykholeslami<sup>1</sup>, N.H. Hassan<sup>1</sup>

<sup>1</sup>Department of Forestry, Chalous Branch, Islamic Azad University, Chalous, Iran

### EFFECTS OF FOREST THERAPY PROGRAMS ON THE STRESS AND EMOTIONAL CHANGE OF EMOTIONAL LABOR WORKERS

J. Lee<sup>1</sup>, P.S. Yeon<sup>2</sup>, S.H. Park<sup>1</sup>

<sup>1</sup>National Center for Forest Therapy, Yeongju, South Korea

<sup>2</sup>Chung Buk University, Cheong Ju, South Korea

## 2. Mental Health benefits of exposure to Nature.

### LEARNING BY PLANTING: EDUCATION FOR FUTURE CITIZENS

R. Amaral<sup>1</sup>, G. Velasco<sup>1</sup>, C. Souza<sup>1</sup>, A. Tupiassu<sup>2</sup>, P. Ielo<sup>1</sup>, M. Solera<sup>1</sup>

<sup>1</sup>IPT - Institute for Technological Research of the State of São Paulo, Avenida Professor Almeida Prado, 532. Cidade Universitária, São Paulo - SP, Brazil

<sup>2</sup>Secretary of Health of the Municipality of São Paulo, São Paulo, Brazil

### ECOPSYCHOLOGY AS A NEW GROWING FIELD IN PSYCHOLOGICAL COMMUNITY WORLDWIDE. BALANCING THE INTERRELATION OF HUMAN PSYCHE AND PLANETARY WELL-BEING

K. Apostolaki<sup>1</sup>, M. Danon<sup>2</sup>

<sup>1</sup>International Ecopsychology Society, Chania-Crete, Greece

<sup>2</sup>International Ecopsychology Society, Osnago, Lecco, Italy

### EFFECT OF APPLICATION OF A COGNITIVE BEHAVIORAL INTERVENTION FOCUSED ON THE AMAZONIAN RAINFOREST FOR CONTROL OF AMNESTIC COGNITIVE IMPAIRMENT IN ELDERLY

G. Correa-Núñez<sup>1</sup>, S. Checca-Sánchez<sup>2</sup>

<sup>1</sup>Academic Department of Basic Sciences, Madre de Dios Amazon National University, Puerto Maldonado, Perú

<sup>2</sup>Nursing School, Madre de Dios Amazon National University, Puerto Maldonado, Perú

### NATURE ENGAGEMENT FOR HEALTH: ENHANCED METHODS TO IMPROVE CONNECTION AND REDUCE STRESS

E. Luvaas<sup>1</sup>, S. Stoll<sup>2</sup>

<sup>1</sup>Department of Recreation, Parks, & Tourism Administration, California State University, Sacramento, United States

<sup>2</sup>Department of Movement Sciences, University of Idaho, Moscow, Idaho, United States

### SIX-STEP PROCESS MODEL OF FOREST HEALING

K. Oh

Department of Forest Therapy, Chungbuk National University, South Korea

**THE EFFECTS OF FOREST HEALING PROGRAMS ON CHILDREN AT RISK****J. Hong<sup>1</sup>, S. Park<sup>1</sup>***<sup>1</sup>National Institute of Forest Science, Republic of Korea***3. Planning physical activities in Forest/Natural environment for Public health.****GREEN CARE WALD AND FOREST PEDAGOGICS - A VIVID SYMBIOSIS****E. Johann***Verein Waldpädagogik in Österreich, St. Margareten, Austria***INFLUENCE OF FOREST CHARACTERISTICS AND SILVICULTURAL TREATMENT ON STRESS LEVEL: A NEUROSCIENTIFIC APPROACH****S. Sacchelli<sup>1</sup>, L. Bambi<sup>2</sup>, E. Barbierato<sup>1</sup>, T. Borghini<sup>2</sup>, I. Capecchi<sup>1</sup>, G. Grilli<sup>1</sup>, F. Pastorella<sup>1</sup>***<sup>1</sup>Department of Agricultural, Food and Forest System Management, University of Florence, Florence, Italy**<sup>2</sup>Department of Architecture, University of Florence, Florence, Italy***NATURE WALK IS FUEL TO LIVE AN OPTIMAL HEALTH****V.B. Yetapu***VChangeU, Hyderabad, India***4. Urban Forests and their ecosystem services for Public Health.****QUANTIFICATION-VALORIZATION OF THE ENVIRONMENTAL SERVICES LINKED TO PUBLIC HEALTH PROVIDED BY THE TREE COVER OF CHAPULTEPEC PARK IN MEXICO CITY****H.M. Benavides-Meza<sup>1</sup>, S.F. López-López<sup>1</sup>***<sup>1</sup>CENID-COMEF, Instituto Nacional de Investigaciones Forestales, Agrícolas y Pecuarias. Mexico City, Mexico***SPATIAL INFLUENCE OF ENVIRONMENTAL FACTORS IN THE Aedes Aegypti INFESTATION INDEX IN THE EAST REGION OF BRAZIL, IN 2016****A.P.S. Camelo<sup>1</sup>, K.L. Sanches<sup>2</sup>***<sup>1</sup>Forest Science of University of Brasilia, Brazil**<sup>2</sup>Federal Institute of Brasilia, Brazil***QUANTITATIVE ASSESSMENT OF LANDSCAPE QUALITY IN FOREST THERAPY GARDENS – A CASE STUDY IN BEIJING SUBURB****R. Dong<sup>1</sup>, Xueqi Zhang<sup>1,2</sup>, Yonglin Zhang<sup>1,2</sup>, Tianxia Jia<sup>1,2</sup>***<sup>1</sup>State Key Laboratory of Urban and Regional Ecology, Research Center for Eco-environmental Sciences, Chinese Academy of Sciences, Beijing, China**<sup>2</sup>University of Chinese Academy of Sciences, Beijing, China***CLIMATE RESILIENCE FOR HYDERABAD METROPOLITAN AREA BY SUSTAINABLE MANAGEMENT OF URBAN RESERVE FOREST ECOSYSTEMS****C.R. Gopidi<sup>1</sup>, P. Bass<sup>1</sup>***<sup>1</sup>Forest College and Research Institute, Hyderabad, India***GO GREENER GO SAFER? THE IMPACT OF URBAN TREE COVER ON PERCEIVED SAFETY****K. Mouratidis***Department of Urban and Regional Planning, Norwegian University of Life Sciences, Norway***INVESTIGATING THE BEHAVIORISM TRENDS OF SOURCE STAKEHOLDERS TOWARDS THE PROCESS OF ADOPTION OF FOREST INNOVATIONS AS ALTERNATIVE LIVELIHOOD SOURCES FOR CONSERVATION OF NATURAL ECOSYSTEMS AND IMPROVEMENT OF COMMUNITY WELLBEING STATUS IN KENYA****L. Mugendi***Kenya Forestry Research Institute (KEFRI), Coast Eco-Region Research Programme, Malindi, Kenya*

**VOLATILE ORGANIC COMPOUNDS AND MICROMETEOROLOGY FACTORS IN URBAN FOREST****Y.S. Jo<sup>1</sup>, S.J. Park<sup>1</sup>***<sup>1</sup>Forest Welfare Division, Forest Policy and Economics Department, National Institute of Forest Science, Republic of Korea***SUSTAINABLE MANAGEMENT OF FORESTS, THE KEY TO WATER SUPPLY IN THE CITIES OF THE SANTA MARIA RIVER WATERSHED****A. Pascual***Fundacion CoMunidad, Panama***INTEGRATION OF MEDICINAL PLANTS KNOWLEDGE AND USE IN FOREST THERAPY****K. Kilpi<sup>1</sup>, V. Povilaityte-Petri<sup>2</sup>***<sup>1</sup>Department of Work Science, Business Economics and Environmental Psychology, Swedish University of Agricultural Sciences, SLU, Sweden**<sup>2</sup>Museum of Medicinal Plants and Pharmacy, Faculty of Pharmacy, Université Libre de Bruxelles, Belgium***PROMOTING HUMAN HEALTH THROUGH PARTICIPATORY URBAN FORESTRY: A CASE STUDY FROM INDIA****S.K. Sharma***Shemford School, Dehradun, India***AIR PURIFICATION BY URBAN PARK TREES IN HONG KONG****S. Wang<sup>1,2</sup>, L.M. Chu<sup>2</sup>, H. Zhang<sup>1</sup>***<sup>1</sup>Faculty of Design and Environment, Thei, Hong Kong SAR, China**<sup>2</sup>School of Life Sciences, The Chinese University of Hong Kong, Hong Kong SAR, China*

## 5. Urban forestry and Green spaces planning and design for human activity.

**THE EFFECT OF THERMAL ENVIRONMENT OF THE FOREST ON HUMAN AUTONOMIC NERVOUS SYSTEM****D. Joung<sup>1</sup>, J. Lee<sup>1</sup>, S. Hong<sup>1</sup>, D. Kim<sup>1</sup>, B.J. Park<sup>1</sup>***<sup>1</sup>Department of Environment and Forest Resources, Chungnam National University, Daejeon, Korea***THE ROLE OF FORESTS IN THE CONTEXT OF ENVIRONMENTAL CITIZENSHIP: INSIGHTS FROM AUSTRIA****J. Oettel<sup>1</sup>, K. Lapin<sup>1</sup>, F. Leregger<sup>2</sup>, J. Zöschner<sup>3</sup>***<sup>1</sup>Austrian Federal Research Centre for Forests, Vienna, Austria**<sup>2</sup>Institute for Environment, Peace and Development (IUFE), Vienna, , Austria**<sup>3</sup>Forest Training Centre, Ossiach, Austria***MICROCLIMATE DEPENDENCE OF ATMOSPHERIC PYHTONCIDE CONCENTRATION ABOVE THE MAIN EAST ASIAN FOREST TYPES****B.J. Park<sup>1</sup>, G. Kim<sup>2</sup>, D. Joung<sup>1</sup>***<sup>1</sup>Department of Environment and Forest Resources, Chungnam National University, Daejeon, Korea**<sup>2</sup>Department of Forest Welfare Research Center, National Institute of Forest Science, Seoul, Korea***EFFECTS OF FOREST THERAPY PROGRAM ON THE RECOVERY FROM FIREFIGHTERS' STRESS****B. Lee<sup>1</sup>, D.W. Ko<sup>1</sup>, D.S. Lee<sup>1</sup>, M.Y. An<sup>1</sup>, J.W. Lee<sup>1</sup>, J.W. Kang<sup>1</sup>, C.H. Park<sup>1</sup>***<sup>1</sup>National Center for Forest Therapy, Korea Forest Welfare Institute***INTRODUCTION TO KOREA FOREST WELFARE INSTITUTE****H.E. Oh<sup>1</sup>, Y.K. Yoon<sup>1</sup>, P.S. Kim<sup>1</sup>, S.H. Yeon<sup>1</sup>, B.G. Woo<sup>1</sup>***<sup>1</sup>Korea Forest Welfare Institute*









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