15th International Conference on the Ecology and Management of Alien Plant invasions (EMAPi):
Integrating research, management and policy

Preliminary programme (as of 29 July 2019)

MONDAY 9 September 2019

15.00 registration opens

18:00–19.00 (KEYNOTE 1) Marc Cadotte: Dissecting the success and impact of urban invasions
Welcome party & poster session

TUESDAY 10 September 2019

8.30 opening

9.00–9.40 (KEYNOTE 2) Jane Catford: Unravelling context dependency in invasion science

SECTION 1 – SPECIES INVASIVENESS: INTRODUCTION, NATURALIZATION SPREAD & MONITORING

9.40 – 10.00 John Wilson: Invasion frameworks: an assessment of usage and options for improvement
10.00 – 10.20 Yan Sun: When and how does “origin” matter: from macro-ecology back to experimental ecology to elucidate drivers of invasion success?
10.20 – 10.40 Thomas Carlin: Plant invasions in non-analogue climates reflect phenotypic plasticity rather than contemporary adaptation

coffee break 10.40–11.10

9.40 – 10.00 Marco Brendel: Does time heal wounds? Effects of climatic dissimilarity on population dynamics of invasive plants revealed by residence time
10.30 – 11.50 Heidi Hirsch: A global assessment of the introduction history and population genetic characteristics of the commercially important invasive tree *Acacia dealbata* Link.
11.50 – 12.10 Luís González: An Atlantic Odyssey: the fate of invading propagules across the coastline of the Iberian Peninsula

12.10 – 12.30 flash talks
Mauricio Mantoani: Surviving the cold: impacts of an extreme weather event on the growth and phenology of *Gunnera tinctoria*
Andrei Costan: Reduced herbivory does not increase competitive ability or shift chemical defences in alien *Rumex*
Francesco Guarino: Epigenetic aspects involved in plant invasiveness
Sandra Savinen: Applications of bioinformatics to identify genotypic differentiation in alien plants

lunch 12.30–14.00
14.00–14.40 (KEYNOTE 3) Franz Essl: The big picture: a macroecological perspective on the global state of plant invasions

14.40 – 15.00 Jaco Le Roux: Invasive plant-soil feedbacks: insights from Australian acacias in South Africa’s fynbos biome
15.00 – 15.20 Wen-Young Guo: The role of adaptive strategies in plant invasion
15.20 – 15.40 Luke Flory: Drivers of the long-term dynamics and impacts of plant invasions

coffee break 15.40–16.10

16.10 – 16.30 Becky Kerns: Ecosystem change and a novel invasive annual grass in North American interior ecosystems
16.30 – 16.50 Peter Raal: The ongoing development and evolution of a control and detection system for scattered wilding conifers at the landscape scale in New Zealand
16.50 – 17.10 Ryan Perroy: Increasing the availability and utility of high-resolution imagery for invasive species detection in Hawai’i
17.10 – 17.30 Gonzalo Rivas-Torres: Use of drone and satellite images to classify and map native and invasive vegetation in island systems: the Galapagos example

17.30 –18.00 flash talks
   Staci Warrington: Do co-introduced exotic rhizobia facilitate Australian acacia invasion success?
   Jennifer Bufford: Homeostatic fitness is key to understanding the role of plasticity in invasions
   Margherita Gioria: Plant species forming a persistent soil seed bank have a higher probability of becoming naturalized
   Kyle Hemming: Using the distribution of Australia’s native grasses to predict the spread potential of exotic grasses
   Josef Brůna: Detection and modelling of spread of using UAV data
   Joseph Fennell: From handheld-device to satellite: A toolkit of remote sensing and machine learning techniques for measuring the spread of invasive plants

18.00 poster session

WEDNESDAY 11 September 2019

8.30–9.10 (KEYNOTE 4) Milan Chytrý: The role of habitats in plant invasions: combining the source-area and invaded-area approaches

SECTION 2 – INVADED COMMUNITIES: FROM SPECIES RELATIONSHIPS TO MACROECOLOGY

9.10 – 9.30 Ben Gooden: Impacts of alien plant invasion on forest vegetation are modulated by landscape configuration and native plant functional group
9.30 – 9.50 Anikó Csecserits: Trait-based evaluation of a perennial alien species (Asclepias syriaca) in the invaded community
9.50 – 10.10 Emily Jones: A global assessment of terrestrial alien ferns (Polypodiophyta): species’ traits as drivers of naturalisation and invasion

10.10 – 10.30 flash talks
   Maia Raymundo: Mechanisms limiting seed recruitment in an invaded community
Emily Waddell: Plant invasions are related to disturbance and native sapling diversity in tropical rainforest fragments
Pablo González-Moreno: Understanding hierarchical patterns of plant invasions impacting agriculture: the study case of Parthenium weed in Pakistan
Isabel Pérez Postigo: Which environmental factors affect the diversity of alien herbs in the ruderal flora in western Mexico?

coffee break 10.30–11.00

11.00 – 11.20 Anna Schertler: The “Global Database of Alien Pathogenic Fungi”
11.20 – 11.40 Marina Golivets: Neighbor tolerance, not suppression, provides competitive advantage to non-native plants
11.40 – 12.00 Kateřina Štajerová: Community assembly rules of arbuscular mycorrhizal fungi in plant invasions: comparison between ranges
12.00 – 12.20 Zarah Pattison: The freshwater biodiversity crisis: what role do plant invasions play?
12.20–12.40 flash talks
   Tomasz Szymura: Jointed effect of anthropogenic factors, landscape structure, landrelief, soil and climate on alien plant invasion risk at regional scale
   Natalie West: Flood dynamics dictate distributions of invasive trees on floodplains
   Dorjee: Developing an inventory of the alien flora for data deficient country like Bhutan
   Alessandra Kortz: Increases in local richness (α-diversity) following invasion are offset by biotic homogenization in a biodiversity hotspot

lunch 12.40–14.00

14.00 – 14.20 Christine Sheppard: Relative performance of co-occurring alien plant invaders depends on traits related to competitive ability more than niche differences
14.20 – 14.40 Marija Milanovic: Trait – environment relationships in native vs. non-native plant species
14.40 – 15.00 Montserrat Vilà: Functional and phylogenetic consequences of plant invasions
15.00 excursion/poster session

THURSDAY 12 September 2019

8.30–9.10 (KEYNOTE 5) Doria Gordon: Does weed risk assessment predict timing rather than probability of invasion?

SECTION 3 – ASSESSING RISKS & RAISING PUBLIC AWARENESS

9.10 – 9.30 Anja Bindewald: Linking theory and practice: a site-specific risk assessment for introduced tree species in European forests based on inventory data
9.30 – 9.50 Ingo Kowarik: A plea for multiple responses to invasive plant species exemplified by the case of Ailanthus altissima
9.50 – 10.10 Phil Hulme: Does awareness of invasive freshwater plants mitigate the dispersal risk posed by lake users?
10.10 – 10.30 Ivan Jaric: The role of species charisma in biological invasions
10.30 – 10.40 flash talks
Sandra Skowronek: Who’s next? How species distribution models can and should support the identification of new invasive plant species.
Laura Jones: Driving up standards of invasive weed management through training and assessment: a United Kingdom success story

coffee break 10.40–11.10

SECTION 4 – IMPACT & MANAGEMENT

11.10  – 11.30  Pilar Castro-Diez: Impacts of four common non-native tree species on regulating ecosystem services
11.30  – 11.50  Katharina Dehnen-Schmutz: Impacts of alien plants at regional levels
11.50  – 12.10  Joaquim Silva: Fire hazard and plant invasions – the cases of Hakea sericea and Acacia dealbata in Portugal
12.10  – 12.30  Tomos Jones: Ornamental plants: a threat to the environment due to climate change?
12.30  –12.40 flash talks
   Sjirk Geerts: The absence of keystone indigenous trees inhibits bird recovery up to a decade after invasive tree removal from riparian habitats
   Barbara Tokarska-Guzik: Evaluation of invasive plant species in Poland - methods adopted and results of their application as a basis for practical action

lunch 12.40–14.00

14.00–14.40 (KEYNOTE 6) Melodie McGeoch: From data to decision for policy on biological invasions

14.40  – 15.00  Yang Qiang: Global homogenization of flowering plants by naturalized species
15.00  – 15.20  Thomas Wohlgemuth: Comparative effects of non-native tree species on forest ecosystems in Europe
15.20  – 15.40  Urs Schaffner: Integrating ecological and socio-economic impacts of Prosopis, a woody invasive alien species, to inform management

15.40  –16.00 flash talks
   Jacob Cowan: Invasive and native grasses exert negative plant-soil feedback effects on Artemisia tridentata whereas conspecific effects are neutral.
   Iris Stiers: Removal of alien plants: any effect on native macrophyte recovery and pollinator services?
   Ramya Ravi: Plural realities of plant invasions: Prosopis juliflora in the Banni grassland, India
   Bruce Osborne: Plant invasions and greenhouse gas emissions

coffee break 16.00–16.20

16.20  – 16.40  Florencia Yannelli: Soil legacy effects of Acacia invasions and their implications for restoration in South Africa’s Cape Floristic Region
16.40  – 17.00  Heinz Müller-Schärer: Predicting benefits and risks of biological control of the invasive common ragweed in Europe: from ecological to evolutionary studies
17.00  – 17.20  Jael Palhas: Modelling the biocontrol of an invasive tree by a bud-galling wasp, Trichilogaster acaciaelongifoliae
17.20 – 17.35 flash talks
Catherine Baso: The future of biological control in South Africa: Effects of elevated CO2
Jean-Marc Dufour-Dror: Control of *Acacia saligna* with aminopyralid direct application: New perspectives in the control management of one of the most widespread invasive wattle species
Magdalena Szymura: How to establish grassland on site invaded by *Solidago* - results of a five-year experiment

conference dinner

FRIDAY 13 September 2019

8.30–9.10 (KEYNOTE 7) Heinke Jäger: Conservation and management in plant invasions in biodiversity hotspots

SECTION 5 – CONSERVATION, PROTECTED AREAS & POLICY

9.10 – 9.30 Llewellyn Foxcroft: Patterns and implications of alien plant invasions at multiple scales
9.30 – 9.50 Ross Shackleton: Assessing biological invasions in protected areas
9.50 – 10.10 Emily Strange: IAS management can facilitate secondary invasions: applying lessons learnt to the Ngorongoro Conservation Area, Tanzania
10.10 – 10.30 Hillary Cherry: Plant risk assessment tools to reduce invasive plant use in ornamental plant industries

coffee break 10.30–11.00

11.00 – 11.20 Katelyn Faulkner: Stronger regional biosecurity is essential to prevent hundreds of harmful biological invasions
11.20 – 11.40 Spyridon Flevaris: European Union policy on invasive alien species: latest developments and next steps
11.40 – 12.00 Susan Hester: Aligning incentives in pre-border and border biosecurity rules
12.00 – 12.20 Elisabeth Pötzelsberger: Different strategies in national and subnational legal frameworks on non-native forest tree species in Europe
12.20 – 12.45 closing

12.45 lunch
LIST OF POSTERS

Adamska, Edyta; Kamiński, Dariusz (PL): Invasive alien trees species as phorophytes affecting the composition of lichens. *Acer negundo* on Vistula River Valley case (N Poland).

Albert, Arnaud (FR): National management strategy for *Heracleum mantegazzianum*, an example of how France wants to control widely spread IAP

AlOtaibi, Saad (SA): A new suggested model of a semi-regional plant protection organization for the Gulf Cooperation Council (GCC countries) in order to enhance The Pest monitoring and Control Strategy including transboundary pest.

Alvarez, Miguel (DE): Modelling potential dispersal of *Prosopis juliflora* in East Africa: scaling and assembling correlations

Andelković, Ana (RS): The influence of hydromorphological characteristics of riparian areas on the presence of invasive alien plants

Aravind, P. S. (IN): Long term impacts of *Lantana camara* L. invasion in a heterogeneous landscape of a biodiversity hotspot

Baba, Wojciech; Kompała-Baba, Agnieszka (PL): Mechanisms of adaptation of photosynthetic apparatus in invasive plant *Euthamia graminifolia* (L.) Nutt. to drought stresses

Berchová-Bímová, K. (CZ): GEO-BI – new GEOportal for Biological Invasions

Bjedov, Ivana (RS): Polyphenolic profiles of invasive *Sorghum halepense* (L.) Pers. within the Belgrade urban and suburban area

Botta-Dukát, Zoltán (HU): Does abundance of ragweed differ between the two sides of former iron curtain?

Brundu, Giuseppe (IT): A project for the first checklist of the alien flora of Iran

Brundu, Giuseppe (IT): Mapping and monitoring water hyacinth (*Eichhornia crassipes*) in Sardinia (Italy) based on color-morphology features using Unmanned Aerial Vehicles

Brundu, Giuseppe (IT): Native and not-native weeds in globe artichoke fields under diverse cropping systems in Sardinia (Italy)

Canavan, Susan (US): Assessing the invasion risk of industrial hemp

Castro, Karen (CA): An updated status of introduced and invasive plants in Canada

Chapman, Daniel (GB): Invasion of freshwater ecosystems is promoted by network connectivity to hotspots of human activity

Cowie, Blair (ZA): Feasible or foolish: restoration of *Parthenium hysterophorus* invaded landscapes with native grass seed

Čuda, Jan (CZ): Regeneration of *Phragmites australis* from rhizome and stem fragments: testing the effects of environment, population origin and status

Dajdok, Zygmunt (PL): *Veronica peregrina* as a potentially invasive species in European temporarily flooded habitats – a case study from Lower Silesia (SW Poland)

Dechoum, Michele (BR): Biotic and abiotic changes in subtropical Seasonal Deciduous Forest associated with invasion by a non-native tree

Dehnen-Schmutz, Katharina (GB): Plant Alert – a new tool for the submission of records of potentially invasive ornamental garden plants

Divíšek, Jan (CZ): Functional trait differences between native and alien plant species in local communities of different habitat types


Duarte, Liliana (PT): Sustainable management of *Acacia* spp: an applied perspective of natural control and other methodologies to improve habitat recovery in Protected Areas

Fennell, Mark (GB): How Japanese Knotweed stopped me from selling my house: the history of Japanese Knotweed in the United Kingdom, 1981 to 2019

Fenollosa, Erola (ES): Physiological and ecological niche differentiation between invasive and native *Carpobrotus* sp.: the key of its invasion in Europe?

Foxcroft, Llewellyn C (ZA): Patterns and implications of alien plant invasions at multiple scales
Galkina, Maria (RU): Bidens decipiens Warnst. (=B. connata Muehl. ex Willd.) in the Eastern Europe: new information about hybrid origin
Giulio, Silvia (IT): Alien flora across European sand dunes.
Hall, Rea Maria (AT): Know your enemy: Are biochemical substances the secret weapon of common ragweed (Ambrosia artemisiifolia L.) in the fierce competition with crops and native plant species?
Hall, Rea Maria (AT): Regional adjustment of management options of common ragweed (Ambrosia artemisiifolia L.) along roadside verges in Bavaria
Hanczaruk, Robert (PL): Impact of land use on the distribution of invasive plants in urban river ecosystems: A case study from the Kłodnica Valley (Silesian Upland, Poland)
Hay, John (BR): How does Arundo donax grow?
Hirata, Momoko (JP): Which traits explain the distribution patterns of alien Lolium species in Japan?
Hiremath, Ankila J. (IN): Managing invasive species in a complex social-ecological systems: A system dynamics based insight-building tool for the Banni grasslands, India
Holec, Josef (CZ): Ammi majus as a new arable weed in the Czech Republic
Holec, Josef (CZ): Rosa multiflora in Prague 6 district – cultivated ornamental and escaping invader
Jakaityte, Indre (GB): Induced damage effect on Rhododendron ponticum chemistry composition
Jesus, Joana (PT): Establishment of early symbiosis in Acacia longifolia: does fire play a role?
Jogan, Nejc (SI): Can archaeophytes’ distribution patterns help us understand the neophytes?
Jones, Gruffydd (GB): Shrub establishment favoured and grass dominance reduced in acid heath grassland systems cleared of invasive Rhododendron ponticum.
Jubase, Nolwethu (ZA): Asphodelus fistulous L., a newly discovered plant invader in South Africa: Assessing the risk of invasion and potential for eradication
Kalusová, Veronika (CZ): Levels of alien plant invasions in European grasslands
Karrer, Gerhard (AT): Genetic variation of the invasive Ambrosia psilostachya (Asteraceae) in Europe is biased by clonal propagation
Karrer, Gerhard (AT): JOINT AMBROSIA ACTION – Interreg-Project V-A Austria-Hungary to fight Common Ragweed (Ambrosia artemisiifolia L.)
Klinger, Yves P. (DE): Germination of L. polyphyllus depends on cutting date and seed morphology
Kompała-Bąba, Agnieszka (PL): The role of alien species in plant communities that developed in the ruderal habitats of the Silesian Uplands (Southern Poland)
Kowarik, Ingo (DE): A plea for multiple responses to invasive plant species exemplified by the case of Ailanthus altissima.
Kutlaňšr, Josef (CZ): Perennial ornamental plantations as a source of plant invasion: long-term trends in species composition
Langdon, Bárbara (CL): The invasive potential of Forestry species in South Central Chile: first steps towards management planning.
Lapin, Katharina (AT): The impact of invasive alien plant species on the regeneration of european temperate broadleaf and mixed forests
Latombe, Guillaume (AT): AlienScenarios: Developing and applying scenarios of biological invasions for the 21st century
Leostrin, Artem (RU): Towards a better understanding of plant invasions in boreal zone of European Russia: the inventory of Kostroma alien flora
Linders, Theo (DE): An integrative approach to assess how invasive plants affect ecosystem service multifunctionality.
Luoma, Mervi Orvokki (IS): Mapping Anthriscus sylvestris and Myrrhis odorata in Reykjavík, Iceland
Máguas, Cristina (PT): Siam weed (Chromolaena odorata) invasion in Guinea-Bissau, West Africa.
Mehta, Nirav (IN): Making friends with mad trees: Sustainable management of an invasive species in the Banni grasslands
Minuti, Gianmarco (BE): A first step towards the biological control of Iris pseudacorus L. (Iridaceae)
Montes, Nerea (ES): Impacts of *Arctotheca calendula* on plant-herbivore interactions in continental and insular habitats in the NW Iberian Peninsula

Moodley, Desika (CZ): Gatecrashers at the doorstep: Towards a global inventory of alien plants in protected areas

Moravcová, Lenka (CZ): Differences in short-term seed-bank dynamics between alien species and their native congener

Moser, Barbara (CH): Invasiveness of Douglas fir in temperate European mixed forests during the seedling stage

Moshobane, Claude (ZA): Impacts of alien plant taxa on human in South Africa

Mottet, Marilou (FR): Risk assessment and management strategy of Giant ragweed and Western Ragweed in France

Müllerová, Jana (CZ): Remote sensing approach to study spread of invasive species

Nešić, Marija (RS): Factors affecting seed germination of the invasive species *Aster lanceolatus* Wild. complex and their implication for invasion success

Nietupski, Ty (US): Remote Sensing Derived Landscape Phenology for Invasive Annual Grass Mapping

Novoa, Ana (CZ): Additive effect of urbanization and invasion by *Ailanthus altissima* on the soil ecology of coastal areas

Nuske, Susan (SE): Advancing understanding of invasion ecology with Pines.

Obratov-Petković, Dragica (RS): Predicting distribution of invasive plants using clime and habitat suitability model

Oliveira-Costa, Jorge (PT): Thinking Australian *Acacia longifolia*’s invasibility: geographic, climate and taxonomic scales in *A. longifolia* invaded ranges


Paul, Thomas (NZ): Detecting and mapping invasive Pinaceae remotely in the South Island High Country of New Zealand

Pertierra, Luis R. (ES): Examination of the global invasive relatedness among Poaceae alien species

Pertierra, Luis R. (ES): Examining traits related to invasiveness in polar regions

Pötzelsberger, Elisabeth (AT): Origin and genetic variation of non-native trees in Europe and relevance for forest practice

Rivas-Torres, Gonzalo (EC): Invasive species impacts on the Galapagos flora, the *Cedrela odorata* case.

Robinson, Andrew (AU): A matter of survival: a simple model for the detection of an invasive species under surveillance.

Rodríguez, Jonatan (ES): Do changes in plant-herbivore interactions determine the biotic resistance against *Ailanthus altissima*?

Rolando, Carol (NZ): Improving herbicide application efficiency and efficacy for control of wilding conifers

Rozman, Sonja (SI): Action plan for invasive alien species management in the Landscape park Tivoli, Rožnik and Sišenski hrib near Ljubljana, Slovenia

Sainepo, Bernice (DE): *Parthenium hysterophorus* in East Africa: a numerical review

Sheppard, Christine S. (DE): Biotic resistance or introduction bias? Immigrant plant performance decreases with residence times over millennia

Shimono, Yoshiko (JP): Invasion of alien species through weed seed contaminants in grain commodities strongly affect local vegetation at international trading ports

Šipek, Mirjana (SI): Alien species diversity and composition in periurban and urban forest islands is affected by adjacent land use

Škálová, Hana (CZ): Effect of growing conditions on germination of native and invasive *Impatiens* species

Škálová, Hana (CZ): In search of traits driving plant invasion: growth, tissue chemistry and genome size of invasive and native *Phragmites australis* populations

Skocajic, Dragana (RS): *Leycesteria formosa* Wall. – an ornamental but potentially invasive species in Serbia
Šoln, Katarina (SI): Rhizome extracts of invasive *Fallopia japonica* and *F. ×bohemica* inhibit root growth and modify root tip ultrastructure of radish

Sychrová, Martina (CZ): Effects of past land-use on invasions by alien plants in the Czech Republic

Szczęśniak, Ewa (PL): Expansion of halophilic and pseudo-halophilic alien species in Lower Silesia (SW Poland, EU) as reaction for co-impact of salt deicing and climate changes

Tamayo, Mariana (IS): Native insect herbivory on Nootka lupine in Iceland

Thibaudon, Michel (FR): IRS (International Ragweed Society) an international tool to help *Ambrosia* management

Tokarska-Guzik, Barbara (PL): *Grindelia squarrosa* – economically useful or an invasive plant in Europe?

Tortorelli, Claire (US): *Ventenata dubia*: Invasion potential and impact on native communities in North America’s Pacific Northwest

Trindade, Helena (PT): Influence of abiotic factors on growth and nodulation of *Acacia longifolia*.

Trouvé, Raphaël (AU): Predictive propagule pressure reduction from biosecurity inspection

Ulm, Florian (PT): Using an invasive legume to engineer healthy agricultural soil: from mechanisms to models of a potential Win-Win situation

Uludag, Ahmet (TR): Current status of alien ornamental flora in Turkey

van Loo, Marcela (AT): Genetic diversity and geographic origin of *Ailanthus altissima*: Europe versus Vienna (Austria)

Van Valkenburg (NL): A natural hybrid of Impatiens in the introduced range: *Impatiens balfourii x parviflora* in Ticino canton in Switzerland.

Varia, Sonal (GB): The use of the Australian mite, *Aculus crassulae* as a biocontrol agent for *Crassula helmsii* in Europe

Vítková, Michaela (CZ): How vulnerable to plant invasions is an arctic-alpine tundra under long-term human impact in the Krkonose Mts, Czech Republic?

Vojík, Martin (CZ): Two shades of grey: xerophytes from garden beds as invaders of native vegetation?

Weidong, Fu; Guoliang, Zhang (CN): Effects of different alternative plants on the control of *Mikania micrantha*

Yaacoby, Tuvia (IL): Control of the invading species *Ambrosia confertiflora* and *Parthenium hysterophorus* with Aminopyralid herbicide

Zhang, Guoliang (CN): Effects of invasive *Cenchrus spinifex* on nitrogen pools in sandy grassland.