

Daily program

Tuesday morning November 18th

07:00-08:00 > Registration - *Venezia hall*

08:00-08:25 > Welcome to country and conference - *room: Venezia*

08:25-08:55 > Keynote session - *room: Venezia*
Concepts and challenges of achieving scale in restoration
D. Freudenberger

09:00-10:20 > Session A1 - *room: Venezia*
Plant conservation and restoration - 1
Chair: G. Gâteblé

- 09:00 > Conservation, restoration and reconstitution of semi-xerophilous forests on Reunion Island (COREXERUN)
O. Flores
- 09:20 > Structural and functional connectivity in fragmented landscapes: Insights into conservation and restoration of New Caledonian forests
V. Hequet
- 09:40 > The dry forests of New Caledonia: assessment and perspectives after more than 13 years of actions in aim to conserve and restore these threatened spaces and species
V. Mary
- 10:00 > The Anthropocene demands the convergence of restoration ecology and conservation biology
D. Bowman

Session A2 - *room: Lobby*
Fauna conservation and restoration - 1
Chair: E. Vidal

- 09:00 > Research on reproductive success of wild kagus in New Caledonia - Implications for conservation
J. Theuerkauf
- 09:20 > Highly threatened species on mining areas facing multi-invasions - Insights for long term management of biodiversity on mining sites in New Caledonia
H. Jourdan
- 09:40 > Restoration attempts of the endemic land-snail *Placostylus* in New Caledonia: Rodent poisoning and trial release in remnant dry forest patches
F. Brescia

10:20 - 10:50 > Coffee time

10:50-12:30 > Session B1 - *room: Venezia*
Plant conservation and restoration - 2
Chair: D. Freudenberger

- 10:50 > The New Zealand epiphyte research
C. Kirby
- 11:10 > Study and management of endangered plant species in New Caledonia: Dedicated programs developed by the New Caledonian agronomic institute
B. Fogliani
- 11:30 > Ex situ seed storage of Australian *Nymphaea* (water lilies): Implications for conservation and restoration
E. Dalziel
- 11:50 > Ex situ conservation of the threatened *Androcalva perlaria* (Malvaceae s.l.) and implications for in situ restoration
S. Whiteley
- 12:10 > Mangrove monitoring using remote sensing data time series: Application to Mangroves under mining constraints
R. Andreoli

Session B2 - *room: Lobby*
Fauna conservation and restoration - 2
Chair: F. Brescia

- 10:50 > Modelling landscape level distribution and habitat restoration requirements for the green and golden Bell frog (*Litoria aurea*) in South-Eastern Australia
D. Wright
- 11:10 > Restoration for threatened amphibians and managing the impact of an invasive pathogen *Batrachochytrium dendrobatidis*
M. Mahony
- 11:30 > Investigating behaviour for conservation goals: Conspecific call playback can be used to alter amphibian distributions within ponds
M. James
- 11:50 > The ghosts of *Meiolania* in the Melanesian Anthropocene: Restoring trophic and evolutionary dynamics with proxy tortoise species
J. Juvik
- 12:10 > Phylogenetic studies on the lizard fauna of New Caledonia's ultramafic surfaces and its application to conservation management
H. Jourdan

12:30 - 13:55 > Lunch

Tuesday afternoon November 18th

13:55-14:25 > Keynote session - *room: Venezia*
Toolkit for ecosystem service site-based assessment in Fiji
N. Thomas

14:30-15:50 > Session C1 - *room: Venezia*
Plant conservation and restoration - 3
Chair: L. Maggia

- 14:30 > Dynamics of *Metrosideros excelsa* (pohutukawa) forest, Bay of Plenty, New Zealand
R. Bylisma
- 14:50 > Is fire essential for successful in situ regeneration and management of *Androcalva perlaria* (Malvaceae), an endangered species from South-West Western Australia?
C. Best
- 15:10 > Ecosystem services restoration by seed dispersion approach, the case of the Koniambo massif
C. Zongo
- 15:30 > Ecological energetic models of pollination restoration in thermo-energetic island landscapes
S. Tomlinson

Session C2 - *room: Lobby*
Landscapes, people and livelihoods
Chair: P-Y Lemeur

- 14:30 > Ecological restoration? Its the law! An insight in New Caledonian and comparative law
V. David
- 14:50 > Looking for the in between: Preserving the "hotspot" when maintaining man-shaped landscapes in New Caledonia
M. Toussaint and C. Levacher
- 15:10 > Long run partnerships lead to ecological restoration success: Craigburn Reserve, New Zealand - A twenty year case study
L. Burton
- 15:30 > Dumbea River: Restoring the win-win link between people and nature
T. Jacob

15:50 - 16:10 > Tea time

16:10-17:30 > Session D1 - *room: Venezia*
Soil and microorganisms in restoration
Chair: K. Dixon

- 16:10 > Improving growth and adaptation of *Carpolepis laurifolia*, an endemic plant species used on ecological restoration of mined areas in New Caledonia. Field experiment on the combined effects of arbuscular mycorrhizal fungi and organic amendment
H. Amir
- 16:30 > Ectomycorrhizal fungi from New Caledonian rainforests on ultramafic soils - Implication for ecological restoration
F. Carriconde
- 16:50 > Soil quality indicators in biodiverse semiarid environments: monitoring, assessment and methods optimisation
M. Munoz-Rojas
- 17:10 > Islands of ecorestoration and soil ecology in agricultural matrices of New Zealand
N. Dickinson

Session D2 - *room: Lobby*
Regulatory frameworks in ecological restoration
Chair: L. Burton

- 16:10 > The Punakaiki living lab: A case study for a consultative and multidisciplinary approach in restoring a mining closure site, West coast, New Zealand
S. Boyer
- 16:30 > *Callitris sulcata*, a threatened emblematic species
J. Maura
- 16:50 > Ecological restoration and the legal context of land management in the Southern province of New Caledonia
F. Le Borgne

18:30 > Bus departure for welcome reception

19:15-22:30 > Welcome reception, *Centre Culturel Tjibaou*

Wednesday morning November 19th

French-English translation
Venezia room only

07:30-08:00 > Registration - Venezia hall

08:00-08:10 > Welcome - room: Venezia

08:10-10:10 > Symposium 1 - room: Venezia

SERA's Australian restoration principles and standards project: Progress to date and potential for adaptation to the broader region

Chair: K. Dixon

08:10 > Progress with SERA's principles and standards for ecological restoration and rehabilitation:
Purpose, process and relevance in the real world
T. McDonald

08:30 > Developing and adapting the SEQ Ecological Restoration Framework ("SEQ Framework")
J. Ford

08:50 > The RIAWA seed accreditation standards project - An example of standards embedded in industry
D. Hancock

09:10 > Systematic evaluation of ecological compensation in New Zealand and the need for standards
B. Clarkson

09:30 > What would be needed to adapt SERA's draft Australian Ecological Restoration and Rehabilitation standards to make them useful across the Asia/Pacific region?
D. Lamb

09:50 > Discussion

10:10 - 10:30 > Coffee time

10:30-11:00 > Keynote session - room: Venezia

Social impediments to the management of invasive species and ecosystem conservation:
What is the way forward?
M. Potter

11:05-12:25 > Session E1 - room: Venezia

Managing metal toxicity in soils

Chair: F. Bailly

11:05 > Identification of hyperaccumulator plants in nickel mining leases: Conservation strategies and potential applications
A. van der Ent

11:25 > Ecocatalysis: An opportunity for the recovery of the mine rehabilitation
C. Poullain

11:45 > Rehabilitation of New Caledonian mine spoils using hyperaccumulating plants, a new sustainable development path
R. Mathieu

12:05 > Restoration of rice agroecosystem's productivity in Cu-contaminated paddy fields with compost amendment in Mankayan, Benguet, Northern Philippines
V. Cuevas

Session E2 - room: Lobby

Island and invasive alien species - 1

Chair: H. Jourdan

11:05 > Invasive feral pigs control control as a measure for *Agathis montana* and tropical mountain cloud forest conservation
F. Tron

11:25 > Population regulation of rusa deer in New Caledonia: Constraints and initiatives towards a major invasive species of strong conflicts of interests
P. Barriere

11:45 > Invasive rat control in island natural areas: When does the game be worth the candle?
Q. Duron

12:05 > Considering cat individual predation patterns to improve shearwater colony restoration. A pilot study in New Caledonia
P. Palmas

12:25 - 13:55 > Lunch

13:00-13:50 > SERA Annual General Meeting - room: Venezia

Wednesday afternoon November 19th

French-English translation
Venezia room only

13:55-14:25 > Keynote session - room: Venezia

From offshore island restoration to the urban frontier
B. Clarkson

14:30-15:50 > Session F1 - room: Venezia

Ecological resilience

Chair: T. McDonald

14:30 > Determining the winter micro-habitat selection of a threatened amphibian (*Litoria aurea*) in constructed urban wetlands
J. Garnham

14:50 > Ecological resistance: What role in ecological restoration?
A. Hansen

15:10 > Rapid response of earthworm communities to above-ground restoration
S. Boyer

Session F2 - room: Lobby

Island and invasive alien species - 2

Chair: S. Isnard

14:30 > Restoration of native vegetation invaded by alien plants in small tropical islands of the South Pacific
T. Laitame

14:50 > Re-establishing *Beilschmiedia tawa* in the presence of invasive alien plants
K-J. Cutting

15:10 > Responses on three big questions of invasion ecology in South Korea
C.S. Lee

15:50 - 16:10 > Tea time

16:10-17:50 > Session G1 - room: Venezia

Genetics as a tool for conversation and restoration

Chair: F. Carrionde

16:10 > Providing a genetic framework to enhance the success and benefits from forest restoration and carbon plantings in the rural midlands of Tasmania, Australia
N. Davidson

16:30 > Evaluating Banksia woodland restoration using genetic and ecological markers
A. Ritchie

16:50 > Molecular approach to support the management and restoration of degraded sites
L. Maggia

17:10 > An ecological genetic assessment of non-local provenance seed in a restoration context
S. Krauss

17:30 > Proteomics highlights specific germination and evolution features of ancestral *Amborella trichopoda* seeds
V. Sarramegna

Session G2 - room: Lobby

Mine restoration - 1

Chair: D. Lamb

16:10 > A case study: Ecological restoration for a new open pit mine in Caledonia
First results and evolution of strategy and methodology
A. Leveau

16:30 > Biodiversity modelling to integrate decisions from pre-mining to mine closure: An example from the banded ironstone ranges in the South-West Australian global biodiversity hotspot
G. Wardell-Johnson

16:50 > Remote measurement of post-mine landscapes
P. Erskine

17:10 > Mining rehabilitation on Felix & Makhlof former mining site - Païta district - New Caledonia
S. Sarramegna

17:30 > Revegetation works on Koniambo
R. Choramun

18:00-19:00 > Poster session - room: Venezia

19:30-22:30 > Social student event, IRD Campus

Friday morning November 21st

French-English translation
Venezia room only

07:30-08:00 > Registration - Venezia hall

08:00-08:30 > Keynote session - room: Venezia

Seed-based technologies for the restoration of biodiverse landscapes
D. Merritt

08:35-09:55 > Session H1 - room: Venezia

Mine restoration - 2

Chair: K. Dixon

08:35 > Seed science to improve restoration
A. Cochrane

08:55 > Native species mine restoration at Goro in new Caledonia: strategies and challenges
S. McCoy

09:15 > Mine revegetation in New Caledonia – Practical aspects
D. Saintpierre

09:35 > How can plant tissue culture assist mine restoration? Application at Alcoa's Marrinup nursery, Western Australia
D. Wilyams

09:55 - 10:15 > Coffee time

10:15-10:45 > Keynote session - room: Venezia

From degradation to restoration in New Caledonia
L. L'Huillier

10:50-12:50 > Symposium 2 - room: Venezia

Biodiversity strategy in New Caledonia mining environment

Chair: L. L'Huillier

10:50 > Monitoring and management plans of biodiversity on Koniambo
P. Philippe

11:10 > Biodiversity conservation strategy at the Vale New Caledonia project in Southern New Caledonia
S. McCoy

11:30 > SLN Biodiversity strategy
C. Nicolas

11:50 > Seedlings production strategies and rehabilitation plan for the mining center of Tontouta and Ouinné
N. Kagea

12:10 > Discussion

12:30 - 14:00 > Lunch

Session H2 - room: Lobby

Marine restoration

Chair: L. Wantiez

08:35 > A comparative approach of Indo-Pacific reef restoration projects
S. Job

08:55 > Implementing a Coral Reef Rehabilitation Program to mitigate for coastal construction projects
C. Mataafa-Samau

09:15 > Self-recruitment and connectivity of the horse hoof Giant clam, *Hippopus hippopus* in marine protected area of Pouébo (Yabé/LéJao) in the north-East, Lagoon of New Caledonia
J. Tiavouane

09:35 > Remote unexploited reefs as reference site for assessments of reef fish assemblages in coastal areas: insights from unbaited autonomous underwater video
W. Roman

Symposium 3 - room: Lobby

Identifying and overcoming ecological filters limiting seagrass restoration

Chair: K. Dixon

10:50 > Building success from failure: identifying ecological drivers of seagrass restoration failure in Shark Bay, World heritage Area
J. Statton

11:10 > Chaotic genetic patchiness and the recruitment bottleneck in seagrasses: implications for restoration
E. Sinclair

11:30 > Seagrass rehabilitation in South Australia: a story of loss, action, failure, and success
A. Irving

11:50 > Landscape ecology approach to seagrass restoration, creation and enhancement decision making
E. Jackson

12:10 > The stimulation of rhizome and root growth in sub-tropical seagrasses
R. Hendry

12:30 > Discussion

Friday afternoon November 21st

French-English translation
Venezia room only

14:00-16:00 > Session I1 - room: Venezia

Island and coastal restoration

Chair: D. Hancock

14:00 > Decision-making during a crisis environmental event using cloud computing: case study of sediment plumes in the New Caledonia lagoon following heavy rainfall events
R. Andreoli

14:20 > Reciprocal interactions between mangrove plants and substrate, consequences on mangrove restoration
C. Marchand

14:40 > Restoration of arid zone chenopod shrublands in Eastern Australia after mineral sands mining:
1) Revegetation perspectives
I. Sluiter

15:00 > Restoration of arid zone chenopod shrublands in Eastern Australia after mineral sands mining:
2) Faunal recolonisation
A. Olson

15:20 > Restoration of arid zone chenopod shrublands in Eastern Australia after mineral sands mining:
3) Ant assemblages
G. Horrocks

15:40 > Establishment of a management plan for the sand and calcareous (Xatcha) quarries of the Loyalty Islands
G. Kakue

Session I2 - room: Lobby

Mine restoration - 3

Chair: H. Amir

14:00 > Soil strategies for improving restoration success of post-mining semiarid areas: topsoil management and design of growing medium
M. Munoz-Rojas

14:20 > After the goldrush: topsoil handling techniques for reconstruction of eucalypt grassy woodland in a mined landscape after 155 years of gold mining in Victoria, Australia
A. Doronila

14:40 > Selective topsoil management of mined lands for vegetation communities restoration
L. Bordez

15:00 > Seedling abundance and diversity of two different types of lateritic topsoil used on ecological restoration operations at Goro in New Caledonia
O. Ruiz

15:20 > Unraveling the recruitment bottleneck in dominant *Triodia* species for arid zone restoration in the Pilbara, Western Australia
W. Lewandrowski

15:40 > Promoting sustainable Herbaceous populations in mine rehabilitation
C. Castor

16:00 - 16:20 > Tea time

16:20-17:00 > Student prize and closing ceremony

18:30 > Bus departure for conference dinner

19:00 > Boat departure

19:30-23:00 > Conference dinner at Îlot Maître



Mangrove of Îlot Puen

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