MONDAY MARCH 4

8:30 to 11:00 AM  BUS FROM SANTIAGO TO PUNTA DE TRALCA

11:00 to 2:00 PM  CHECK IN AND LUNCH

PLENARY SESSIONS

2:00 to 3:30 PM  OPENING SESSION

2:00 to 2:30  Welcome
Andrés Weintraub, Universidad de Chile
Robert Haight, USDA Forest Service

2:30 to 3:30  Keynote
“Modeling and Algorithmic Changes in Forestry”
Alejandro Jofré, Universidad de Chile
Andrés Weintraub, Universidad de Chile

3:30 to 4:00 PM  BREAK

4:00 to 6:00 PM  MANAGING FOREST PLANTATIONS
Leader: Mikael Ronnqvist

4:00 to 6:00  5 plenary presentations

- “Forest to product modeling using hierarchical planning an approach for evaluation of ecosystem management scenarios”
  Thomas C. Maness, John D. Nelson

- “Modeling Supply Chain Integration in a Forest Company”
  Ignacio Carrasco G., Jorge Vera A.

- “Harvest planning”
  Jenny Karlsson, Mikael Rönnqvist
- “Optimal diameter distribution in forest stand optimisation”
  O. Chikumbo, I. M. Y. Mareels, O. Eriksson, B. J. Turner

- “Strategic and tactical forest planning models in the chilean industry: a 10-year experience and challenges ahead”
  Gonzalo Paredes, Mauricio Ruiz-Tagle, Aurelio Solis

6:00 to 7:00 PM  OPTIONAL MEETING OF IUFRO LOGISTICS RESEARCH GROUP

8:00 PM  COCKTAILS AND DINNER
TUESDAY MARCH 5

PLENARY SESSIONS

9:00 to 10:30 AM  MANAGING FOREST PLANTATIONS (CONTINUED)
Leader:  Mikael Ronnqvist

9:00 to 10:30  4 plenary presentations

− “Models for forest operational decisions”
  Rafael Esptein N., Andrés Weintraub P.

− “Forwarding at harvest areas”
  M. Rönnqvist, P. Flisberg, M. Forsberg

− “Modeling the effects of forest management on carbon sequestration in a Loblolly pine plantation”
  Michael P. Spinney and Stephen P. Prisley

− “Addressing computational complexity of large scale eucalypt forest management problems”
  André O. Falcão, José G. Borges; Howard M. Hoganson

10:30 to 11:00 AM  BREAK

11:00 to 1:00 PM  MANAGING BIODIVERSITY AND WILDLIFE
Leader:  Michael Bevers

11:00 to 1:00  5 plenary presentations

− “Title: A 0-1 programming model for reserve design”
  Richard L. Church, Ross A. Gerrard, Michael Gilpin, and Peter Stine

− “Optimizing reserve expansion for San Joaquin kit fox conservation”
  Robert G. Haight
“Zoning versus integrated forest management: Managing for timber and non-timber objectives”
Emina Krcmar, Ilan Vertinsky, and G. Cornelis van Kooten

“An object-oriented approach to stochastic-heuristic satisficing of multiple-objective forest management problems”
Stephen M. Dewhurst and Oscar Garcia

“But is it really optimal? Opening the black box of simulation optimization”
Laurel Travis, Michael Bevers, and Barry L. Nelson

1:00 to 2:30 PM  LUNCH

2:30 to 4:00 PM  MANAGING BIODIVERSITY AND WILDLIFE (CONTINUED)
Leader: Michael Bevers

2:30 to 4:00  4 plenary presentations

“The development of a spatial harvest scheduling system to promote biological conservation between indigenous and exotic plantation stands in New Zealand”
Kevin Boston

“Can mature patch constraints mitigate the fragmenting effect of harvest opening size restrictions?”
Stephanie Rebain and Marc E. McDill

“An investigation of the effectiveness and efficiency of adjacency and other ecological-type constraints for harvest scheduling versus a combined economic and ecologic modeling approach”
Darek J. Nalle, Claire Montgomery, Jeffrey Arthur, Steve Polasky, Nathan Schumaker

“Species preservation and timber harvesting”
Vladimir Marianov, Charles ReVelle, and Stephanie Snyder

4:15 to 11:00 PM  FIELD TRIP AND DINNER
WEDNESDAY MARCH 6

CONCURRENT SESSIONS

9:00 to 10:30 AM MANAGING FOREST PLANTATIONS (SESSION 1)

9:00 to 10:30 AM MANAGING BIODIVERSITY AND WILDLIFE (SESSION 2)

9:00 to 10:30  5 presentations

– “Logistics software implementation in Austrian forest and timber industries”
  P. Daxner

– “PACKING: Useful tool for planted forest management”
  Robert A. Merriam & Victor D. Phillips

– “The hybrid simulation approach to modeling stand level forest ecosystem management; applications of FORECAST in Canada and elsewhere”
  J. P. Kimmins, Brad Seely, Clive Welham, Robin Duchesneau and Eliot McIntire

– “Experimenting with industrial dynamics in the forest sector – a Beer Game application”
  Erlend Ystrøm Haartveit, Dag E. Fjeld

– “Solving a harvest machine location problem”
  Andrés Pereira, Jorge Vera, Andrés Weintraub

9:00 to 10:30  3 presentations

– “Modeling representation of ecosystem diversity of forested peatlands of Belarus”
  Vyacheslav Rybka and Halina Kamyshenko

– “Growth and yield model for uneven-aged Douglas-fir stands in the Pacific Northwest, with management applications”
  Rebecca Ralston, Joseph Buongiorno, Benedict Schulte, and Jeremy Fried
“Spatially explicit Markov models for designing habitat reserves”
Michael Bevers, Curtis H. Flather, Michael R. Taaffe, and Laurel Travis

10:30 to 11:00 AM BREAK

11:00 to 1:00 PM MANAGING FOREST PLANTATIONS (SESSION 1)

11:00 to 1:00 5 presentations

− “Logistics optimization of the production chain in forestry by means of simulation software”
  Bruchner, A-K

− “Estimating the efficiency of a forest supply chain and the value of horizontal cooperation”
  Mattias Forsberg, SkogForsk

− “A dynamic linear programming approach to adaptive logistics: application to optimal coordination under risk in the forest sector”
  Peter Lohmander

− “Managing the future forest resource through designer trees”
  C.L. Todoroki and S.D. Carson

− “Wood supply game simulation”
  Kim Sjöström

11:00 to 1:00 PM MANAGING BIODIVERSITY AND WILDLIFE (SESSION 2)

11:00 to 1:00 3 presentations

− “The role of stakeholder objectives in USDA Forest Service forest plan revisions: The case of the White River National Forest”
  Brian Kent, Pamela Kaval, and Joyce Berry

− “Combined integer goal programming and analytic hierarchy process approach for nature reserve design: A southern Arizona case study”
  Theresa Mau-Crimmins and Leslie Liberti
“The threshold value of wildlife in a flammable forest managed for multiple uses”
Daniel Spring

1:00 to 2:30 PM  LUNCH

PLENARY SESSIONS

2:30 to 4:00 PM  MANAGING NATURAL DISTURBANCE PROCESSES
Leader: David Martell

2:30 to 4:00
3 plenary presentations

- “Optimal continuous cover forest management when we consider the value of timber production and rock fall protection”
  Peter Lohmander

- “Optimal forest rotations with carbon incentives under risk of catastrophic fire”
  Grant Hauer and Jeffrey Englin

- “Comparing the economic effects of fire on recreation demand in Montana and Colorado”
  Hayley Hesseln, John B. Loomis, and Armando Gonzalez-Caban

4:00 to 4:30 PM  BREAK

4:30 to 6:00 PM  STRUCTURING SPATIAL RELATIONSHIPS IN FORESTRY
Leader: Alan Murray

4:00 to 6:00
4 plenary presentations

- “An exact algorithm for the area restriction model”
  Marcos Goycoolea, Juan Pablo Vielma, Alan Murray, Francisco Barahona, Rafael Epstein and Andrés Weintraub

- “Improving the harvesting system through machine management”
  Russell D. Meller, Rien Visser, Kieran McDonagh, Timothy P. McDonald

- “A column generation algorithm for the log truck scheduling problem”
  Myrna Palmgren
“A spatio-economic decision support tool for variable patch size cuts in the boreal forest”
Osvaldo Valeria, Luc LeBel and Kim Lowell
<table>
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<tr>
<td>9:00 AM</td>
<td>MANAGING NATURAL DISTURBANCE PROCESSES</td>
<td>9:00 to 10:30</td>
<td>3 presentations</td>
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|         |                                            | 9:00 to 10:30 | “Examining the consequences of uncertain events in forest management using a hybrid simulation/optimization framework”
|         |                                            |               | Eldon A. Gunn                                                                  |
|         |                                            |               |                                                                                           |
|         |                                            | 9:00 to 10:30 | “An analysis of alternative approaches to initial attack fire simulation process modeling”
|         |                                            |               | J. Keith Gilless and Tao Duan                                                     |
|         |                                            |               |                                                                                           |
|         |                                            | 9:00 to 10:30 | “FireSmart management of flammable forest landscapes”
|         |                                            |               | D.L. Martell, Wenbin Cui, K. Hirsch, and R. McAlpine                            |
|         |                                          |               |                                                                                           |
| 9:00 AM | STRUCTURING SPATIAL RELATIONSHIPS IN FORESTRY | 9:00 to 10:30 | 4 presentations                                                               |
|         | (SESSION 2)                                |               |                                                                                           |
|         |                                            | 9:00 to 10:30 | “Spatial modeling using the hybrid simulation approach in FORCEE, LLEMS, HORIZON and POSSIBLE FOREST FUTURES”
|         |                                            |               | J. P. Kimmins, Brad Seely, Clive Welham, Robin Duchesneau and Eliot McIntire    |
|         |                                            |               |                                                                                           |
|         |                                            | 9:00 to 10:30 | “Optimizing the parameters for simulated annealing in solving a harvest scheduling problem”
|         |                                            |               | Sonney George and Marc McDill                                                    |
|         |                                            |               |                                                                                           |
|         |                                            | 9:00 to 10:30 | “Introduction of a new modes for planning of forest roads based on ecological capability of watershed”
|         |                                            |               | Seyed Mohsen Hosseini, Javad Amiri and Nosratollah Rafatnia                    |
|         |                                            |               |                                                                                           |
“Solving large scale single source uncapacitated network design through dual-ascent and row generation”
Marcelo Olivares, Rafael Epstein

10:30 to 11:00  BREAK

11:00 to 12:30 PM  WORKSHOPS

1:00 to 2:30 PM  LUNCH

2:30 to 4:00 PM  WORKSHOPS  -  CLOSING

4:00 PM  BUS LEAVES TO AIRPORT