



Juan Carlos Carmona, Ing. F.

Forestry Engineer, Universidad Austral de Chile, 1988

Professional Background

Mr. Carmona is a project manager specialist with over 20 years of international experience in the design, planning and implementation of R&D and resource development initiatives. With a degree in Forestry Engineering he has worked in Chile and overseas in technology transfer, scientific research and a variety of entrepreneurial and productive activities. In the forestry sector, Mr Carmona has been particularly active in genetic improvement, silviculture and timber harvesting, having led or participated in many resource development projects for private industry and international development agencies. Fluent in Spanish, English and German, he has travelled extensively and been exposed to many different cultural and technological environments. He is particularly adept at business development and the assembly of multidisciplinary professional teams for implementing innovative investment projects.

Areas of Specialization

- Project Management
- Technology Transfer & Investment
- Research & Development
- Genetic Improvement
- Marketing

Professional Associations

- Colegio de Ingenieros Forestales de Chile

Selected Experience

Resource Development & Marketing

◆ As owner/director of Sponte Sua, a Chilean professional services firm, or on a personal contract basis, Mr. Carmona identified and developed a variety of resource development and technology transfer projects for private and Government clients. Under contract or in joint venture with clients, high socio-economic impact projects and programs were

successfully planned, funded and implemented in the following fields of endeavour:

- Forest biotechnology and clonal forestry development with special reference to the production, testing and marketing of improved genotypes of Radiata pine. Activities included project identification, economic feasibility, joint venture negotiations and implementation
- Truck management and timber harvesting planning systems for improved operational efficiency
- Design and development of environmental impact evaluation systems
- System for improving private-plot accessibility
- Design and development of stool beds for macropropagation of *Eucalyptus nitens* for accelerated low cost clonal replication
- Participated in a resource development project to study, evaluate and reclassify the coastal soils South of Valdivia, Chile. For CAP Inversiones S.A. – Universidad Austral de Chile (UACH). Responsibilities included photo-interpretation, cartography, slope and forestry classification, and water precipitation computation.
- Forest industry operational support, including quality control of door manufacturing. For Laminadora S.A., Valdivia, Chile
- Forest stand classification, land valuation and forest management for D.L 701 application for afforestation financial incentives. For Forestal Tornagaleones Ltda. (now part of Masisa S.A.), Valdivia, Chile

Project Management

- ◆ As Director of Programs, Forestry Division of Fundación Chile, planned and managed a variety of projects relating to:
 - Improved productivity, software development and utilisation, planning, industrial security, ergonomics, environmental impact, dissemination of technical



and economic information, road building and transportation

- Evaluation and coordination of existing technical and infrastructure capacities in Chile for the transfer of advanced forestry biotechnologies, including sources of private and Government funding
- Forestry development in the State of Michoacán, México, and for the Alcan Batek Corporation and Fundación Natura in Ecuador
- Forest Management in Colombia. For a private client

Technology Transfer

- ◆ Transfer of somatic embryogenesis technology to Chile for efficient development of Radiata pine clonal forestry, including embryo capturing, maturation, replication, cryostorage, and genotype trials, selection and deployment
- ◆ International sourcing of appropriate technologies for Chilean socio-economic conditions
- ◆ Development of training courses, seminars and workshops in timber harvesting, transportation and handling for national and international professionals
- ◆ Organising and heading international technology sourcing missions for government agencies, universities, research organisations and private industry
- ◆ Introduction of low cost, high productivity tree pruning tools for improved efficiency in forest management
- ◆ Use of wood in housing and development of energy efficient construction system

Teaching

- ◆ Under the aegis of Fundación DuocUC taught Forest Inventory classes to forestry technicians and execution engineers.

Genetic Improvement

- ◆ Planning, funding and implementation of a US\$3 million, 3-year R&D genetic transformation program of

Radiata pine for improved growth, insect resistance, herbicide resistance, and lignin reduction and modification.

- ◆ Assisted a team of senior forestry geneticists and management specialists running the Forestry Genetic Improvement Program under the aegis of the cooperative agreement signed by the Universidad Austral de Chile (UACH), Corporación Nacional Forestal (CONAF) and the forest industry. Responsibilities included: selection of plus trees, evaluation of genetic improvement trials and seed orchard management for the Radiata pine improvement program; and selection of plus trees for the *Eucalyptus globulus* improvement program

- ◆ Selection of plus trees and evaluation of genetic improvement trials for *Eucalyptus globulus*. For Forestal Tornagaleones Ltda. (now part of Masisa S.A.), Valdivia, Chile

Employment History

Gryphon Resources & Sponte Sua, Concepción, Chile,

2009 – Present. Manager Chile Operations & Owner/Director, respectively

Fundación Chile & GenFor S.A., Concepción, Chile
1990 – 2008.

- Development Manager, GenFor S.A., a Fundación Chile and Neosylva S.A. subsidiary company, 2008
- Director of Programs, Forestry Division, Fundación Chile, 2002 – 2008
- Operations Manager, GenFor S.A., a joint venture company of Fundación Chile, InterLink Biotechnologies Inc. of the US and CellFor Inc. of Canada, 2000 – 2008
- Project Manager, Fundación Chile. Forestry Production Group, 1990 - 2000

DuocUC, Concepción, Chile,
1994 – 2001. Professor, Forest Inventory

Forestry Genetic Improvement Cooperative, Valdivia, Chile,
1989 – 1990. Forestry Engineer

Forestal Pedro de Valdivia S.A., Valdivia, Chile,
1989. Forestry Engineer



Forestal Tornagaleones S.A. (now part of Masisa S.A.), CAP Inversiones S.A. - UACH & Laminadora S.A., Valdivia, Chile,
1988. Forestry Engineer, all three respectively

Forestal Tornagaleones S.A. (now part of Masisa S.A.), Valdivia, Chile,
1987. Assistant Engineer

Deportivo Phoenix, Valdivia, Chile,
1982 - 1986. Rowing Coach to Children, Youth and Master Categories

Languages

Fluent in Spanish, English and German

International Missions & Presentations

◆ *Canada* – Tour of CellFor Inc. somatic embryogenesis laboratory and nursery in Vancouver Island, British Columbia. Technology transfer review and marketing presentation to Forestal Mininco. S.A. For GenFor S.A. – 2002

◆ *Sweden* – Forestry Biodiversity Congress, Elmia Forestry Exhibition and Wood Harvesting & Transportation Workshops – 1997

◆ *Canada* – Invited speaker to the British Columbia Registered Professional Forester's Annual Meeting - 1997

◆ *Canada* – Invited speaker, Wood Harvesting Workshop, Démo Forêt, Quebec – 1996

◆ *United States & Canada* – Forestry Exhibition in Richmond, Virginia and environmental impact studies in Montana & British Columbia – 1996

◆ *New Zealand* – Head of Forestry Mission by professionals of Chile's Working group in Silviculture – 1995

◆ *Austria & Finland* – visit to Klagenfurt Forestry Exhibition & timber harvesting in steep slopes demonstration. Joint program with FAO, and visit to METKO Forestry Fair and timber harvesting in flat terrain demonstration Organized by the Finish Forestry Institute – 1994

◆ *Colombia* – Invited by Smurfit Cartón de Colombia S.A. to speak on Forestry Productivity, and coordinate a Course for Power Saw Instructors, Cali – 1993

◆ *Canada & United States* – Lead a mission to Démo Forêt (Forest machinery Exhibition) and visits to mechanised wood harvesting operations in Quebec, British Columbia and Washington – 1992

◆ *New Zealand* – Tour organized by the NZ Logging Research Organization and Scion, (ex FRI) to study forestry productivity and novel technologies applied to geographic information systems (GIS), timber harvesting, transportation, security, environment, plantation management and genetics – 1991

Courses & Extra Curricula Activities

- *World Masters Games, Sidney 2009, Australia.* Rowing - Mens C Double Scull
- *Harvard Negotiation Skills* – Santiago, Chile, 2004 - 2006
- *International Computing Driving License (ICDL)* – Fundación Chile, SOFOFA, ACTI & MINEDUC, Santiago, Chile, 2003 -2004
- *Student Exchange* – Germany 1979 – 1980
- *Sales Techniques* – Universidad Adolfo Ibañez, Santiago, Chile 1994
- *Project Evaluation* – Faculty of Economics, Universidad of Concepción, Concepción, Chile, 1991
- *Under 19 South American Rowing Championship* – Argentina 1981