# *Fog Garden*
**Collection CAE1118**

## Introduction/Abstract
This archive contains models, CAD drawings, videos, slides, field research journals, press materials, workshop materials, research materials, and reports related to the design for a large-scale complex of dew collecting structures in the Atacama Desert by architect Rodrigo Pérez de Arce and his students from La Pontificia Universidad Católica de Chile.

## Biographical Note: Pilar Cereceda
Pilar Cereceda, a geographer and the Founding Director of the Atacama Desert Center at the Catholic University Santiago, is an expert on arid and semiarid areas, water collection, fog, acid rain, and their hydrography and water resources. She has written a dozen books on the geography of Chile and hundreds of articles for scientific journals and conference proceedings in Chile and abroad. She is a member of the Advisory Committee of the National Action Program to Combat Desertification (PANCD) and Desertification UNDP programs, and has been a consultant to the United Nations Environment Programme. In addition, Cereceda is a member of the editorial board of *Geocarto International*, *Atmospheric Research*, and the *Journal of Geophysical Research-Biogeosciences*.

## Biographical Note: Rodrigo Perez de Arce
Rodrigo Pérez de Arce is a professor at Catholic University Santiago in Chile where he also runs his own architecture practice. He started his private practice in England, taught at the Architectural Association School of Architecture and then the University of Bath, and has been a visiting professor at the University of Pennsylvania and Cornell University. Pérez de Arce is a member of the interdisciplinary team for Arid Zone studies at the Atacama Desert Centre, where he helped develop a master plan and the design of the *Fog Garden* installations at Alto Patache in Northern Chile. He is currently refurbishing a public market in Valparaiso, a World Heritage Site, and is researching the subject of play as generator of architectural and urban form.

## Scope and Content
People have been using dew from fog as a source of drinking water for centuries, but it wasn't until the 1950s that scientists in Chile, South Africa, and elsewhere began measuring the moisture content of clouds and designing structures to collect it. During the decade, several groups of architects and their students have been testing models for fog collectors on the coastal rides of Alto Patache in Chile's Atacama Desert. The Atacama is a place where it has not rained in recorded history, and fog is the only source of fresh water for coastal villages that is not otherwise trucked or piped in from the interior of the country. The Alto Patache coastal fog oasis is a state protected area due to its rich biodiversity. It is located south of Iquique, Northern Chile, and is administered by the Atacama Desert Center (ADC) of the Pontificia Universidad Católica de Chile. In 2007, the Chilean Government bestowed a land stretch covering 1,114.5 hectares to ADC for scientific research, ecosystem protection and environmental education. This oasis has been studied since 1997 from different aspects like climate, fog collection, geomorphology, soil survey, biogeography, flora and fauna distribution, conservation, history and archaeology.

Working with the not-for-profit Atacama Desert Center, which is directed by geographer Pilar Cereceda, architect Rodrigo Pérez de Arce and his students from La Pontificia Universidad Católica de Chile oversaw the



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creation of models for a large-scale complex of dew collecting structures, The Fog Garden, that would collect enough water to both support a garden and satisfy the needs of a nearby village. This archive is equally important to artists, architects, and scientists.

Materials include models, CAD drawings, digital images of Rodrigo Perez de Arce's journal, videos, PowerPoint presentation, slides, field research journals, press materials, workshop materials, research materials, and reports.

**Inclusive Dates**
1980 – 2011

**Bulk Dates**
1980 – 2000, 2011

**Quantity/Extent**
5.5 cubic feet

**Language**
Spanish, Arabic, English, French, Italian

**Arrangement**
Fog Garden is organized into three series: Series 1 includes reports and field notebooks. Series 2 includes slides, models, CAD drawings, and videos. Series 3 contains extensive printed press materials and videos.

| | |
|---|---|
| Series 1: | Research and Data |
| Series 2: | Visual Materials |
| Series 3: | Press |

**Related Archive Collections**
CAE1113: William L. Fox: Atacama Lab

**Related Publications**
INCUBO, ed. *INCUBO: Atacama lab.* Santiago, Chile: INCUBO, 2008.
Bowman, Isaiah. *Desert trails of Atacama.* New York, N.Y.: American Geographical Society, 1924.

**Container Listing by Series:**

**CAE1118/1 Series 1: Research and Data, Folders 1-20, 1981 – 2002**



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Series 1 includes published reports and data as well as field notebooks.

**CAE Box 92**

| | |
|---|---|
| 1-1 | General Information, 1997 |
| 1-2 | Reports, 1981 |
| 1-3 | Reports, 1982 |
| 1-4 | Reports, 1989 |
| 1-5 | Reports, 1991 |
| 1-6 | Field Notebooks, 1991 and undated |
| 1-7 | Field Notebooks, 1991 – 1992 |
| 1-8 | Reports, 1993 |
| 1-9 | Field Notebooks, 1993 |
| 1-10 | Reports, 1994 |
| 1-11 | Reports, 1995 (1 of 2) |
| 1-12 | Reports, 1995 (2 of 2) |
| 1-13 | Field Notebooks, 1994 - 1995 |
| 1-14 | Reports, 1996 (1 of 2) |
| 1-15 | Reports, 1996 (2 of 2) |
| 1-16 | Field Notebooks, 1995 - 1996 |
| 1-17 | Reports, 1997 |
| 1-18 | Reports, 1998 |
| 1-19 | Reports, 1999 |
| 1-20 | Field Notebooks, 2002 |

**CAE1118/2 Series 2: Visual Materials, Folders 1-5, 1980 – 2011**

Series 2 contains the visual materials generated from the project including models, sketches, slides, videos, and CAD drawings.

**CAE Box 92**

| | |
|---|---|
| 2-1 | Fog Catcher Technical CAD Drawings, 1980 – 2011 |
| 2-2 | Project Sketches by Rodrigo Perez de Arce, not dated |
| 2-3 | Project Slides, 1980 – 1997 |
| 2-4 | Project and other Related Videos, 1992 – 2011 |
| 2-5 | Project Models, 2011 |

**CAE1118/2 Series 2: Additional Materials**

**CAE Flat File F17: Oversized Items**

| | |
|---|---|
| 2-1#1 | *Jardin de Niebla (Fog Garden),* CAD Drawings pgs. 1-25, 2011 |
| 2-2#2b | *Cabina (Cabin),* Sketch, not dated |
| 2-2#3b | *Caleta (Cove),* Sketch, not dated |
| 2-2#4b | *Cancha (Field),* Sketch, not dated |
| 2-2#5b | *Dunas y Cumbres (Dunes and Summits),* Sketch, not dated |
| 2-2#6b | *Guaneras (Guano),* Sketch, not dated |
| 2-2#7b | *Paleo Escurrimientos (Paleo Runoff),* Sketch, not dated |
| 2-2#8b | *Quebrada (Ravine),* Sketch, not dated |



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**CAE Flat File F7: Oversized Items**

2-2#1 *Acantilado (Cliff),* Sketch, not dated
2-2#2a *Cabina (Cabin),* Sketch, not dated
2-2#3a *Caleta (Cove),* Sketch, not dated
2-2#4a *Cancha (Field),* Sketch, not dated
2-2#5a *Dunas y Cumbres (Dunes and Summits),* Sketch, not dated
2-2#6a *Guaneras (Guano),* Sketch, not dated
2-2#7a *Paleo Escurrimientos (Paleo Runoff),* Sketch, not dated
2-2#8a *Quebrada (Ravine),* Sketch, not dated

**CAE Box 34: Large Objects**

2-5#6 Fog Catcher Model, 2011

**Offsite Storage**

2-5#1 Fog Catcher Model #1, 2011
2-5#2 Fog Catcher Model #2, 2011
2-5#3 Fog Catcher Model #3, 2011
2-5#4 Fog Catcher Model #4, 2011
2-5#5 Fog Catcher Model #5, 2011

## CAE1118/3 Series 3: Press Materials, Folders 1-22, 1981 – 2009

Series 3 contains press materials, both printed and video.

**CAE Box 92**

3-1 Press, 1981
3-2 Press, 1982
3-3 Press, 1983
3-4 Press, 1986
3-5 Press, 1988
3-6 Press, 1989
3-7 Press, 1990
3-8 Press, 1991
3-9 Press, 1992
3-10 Press, 1993
3-11 Press, 1994
3-12 Press, 1995
3-13 Press, 1996
3-14 Press, 1997
3-15 Press, 1998
3-16 Press, 1999
3-17 Press, 2000
3-18 Press, 2003
3-19 Press, 2004
3-20 Press, 2005
3-21 Press, 2009
3-22 Press, Undated



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