



## **International Cooperation and Mentoring: An Academic Obligation? University of Concepción - CHILE**

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**Journal of Science,  
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# International Cooperation and Mentoring: An academic obligation?

## University of Concepción - CHILE

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Freiburg - 2014

# Outline of presentation

- An overview of the city of Concepción and the region
- Policy of Education in Chile
- The University of Concepción
- The Faculty of Biological Sciences
- International cooperation

# The city of Concepción



# The City of Concepción

- Concepción is the capital city of the Bio-Bio Region.
- It is located in the middle of Chile, close to the Pacific Ocean, and 500 kilometers south of Santiago. Chile is 4000 km length
- The Region is identified with the hydrographic basin of the Bio-Bio River, one of the most important fluvial streams in the country.

# The Region of Bío-Bío

- It has a population of nearly 2.000.000 inhabitants and a surface area of 37.000 square kilometers.
- The climate is characterized by well-defined seasons with a warm summer and a cold winter.
- It is also considered as an university city

# Higher Education in Chile

- **Chile hold 64 Universities**
  - Group 1: Include 25 members called the Rectors Council Group.
  - Group 2: Composed by 39 private Universities of different owners and orientations
- Also has **48 Professional Institutes and 117 Technical Training Centers**

# National Research Support



In 1967, the Ministry of Education created an autonomous office called “National commission for scientific research and technology”, CONICYT. The two major objectives were **the training of human capital** and **the promoting, developing, and disseminating scientific and technological research**. The aim is to Contribute to Chile's economic, social, and culture development.



# Research in Chile

Research is supported almost completely by the Universities, mainly those belonging to the Group 1.

According with the **impact in sciences**, the most relevant Universities are:

- University of Chile
- Catholic University
- University of Concepción

# Graduate Programs and Training



Advanced human capital formation is supported also by CONICYT since 1989.

Scholarships include Master and Ph.D. programs, medical specialties, and postdoctoral training both in Chile and in foreign countries.

The yearly budget is around 190 millions dollars

# The University of Concepción



Campus Concepción (founded in 1919)

The University of Concepción is composed by three campi:

- Campus Concepción
- Campus Chillan (112 kilometers northeast of Concepción)
- Campus Los Angeles (about 136 Km. Southeast of Concepción)

# Thinking and working for human being



Main entrance

The **University of Concepción** is a private corporation **established in 1919 as a result of an initiative** from the local community. It was the third university established in the country and **the first one outside the capital city** and has become a cultural heritage of the city of Concepción.

# Full of symbols



The Torch

- Located at the floor of the main entrance, the torch is one of the relevant symbol, that give us light of knowledge and wisdom, guiding our steps.

# The University of Concepción in the Regional and National Context



The Campanile

- It is humanistic, democratic, and a non profit institution
- Created by the community of Concepción City as a Private Law Corporation
- It is a research university
- It has a regional and national compromise and an important international projection

# General Setting of the University

- **Full-time faculties:** 1.332.
- **Total Budget:** US\$ 141 Millions
- **Staff:** 1.500
- **Building facilities:** 230.000 m<sup>2</sup>
- **Libraries:** 10 (440.000 books)
- **Sport facilities:** Soccer, basketball, tennis, athletics, and other sports.
- **Student houses:** 5

# Outdoor sports





# The campanile



# Faculties

- Architecture, Urbanism and Geography
- Biological Sciences
- Business-Administration and Economics
- Chemical Sciences
- Dentistry
- Education
- Engineering
- Environmental Sciences
- EULA
- Forestry Sciences
- Medicine
- Humanities and Arts
- Law and Social Sciences
- Natural Sciences and Oceanography
- Pharmacy
- Physical and Mathematical Sciences
- Social Sciences
- Veterinary

# Mission



- To generate and transmit knowledge through continuous formation of trained human capital both at **graduates** and **professional** levels.

# Vision



- We aim to be recognized as a national and international leader institution in the creation of knowledge, and in training human resources for supporting the development of the region and our country.

# Academic activities

- 90 Professional careers
- 23,130 Undergraduate students
- 24 PhD programs
- 54 **Master programs**
- 40 Diploma or Diplomate programs
- 30 Health specialists training programs
- 1,637 PhD students
- 1,010 **Master students**
- 110 Foreign students

# Advanced Research Centers at the University of Concepción

- **Eula Center** (Environmental Research)
- **CIPA Center** (Polymers Research)
- **COPAS Center** (Oceanographic Research)
- **GEA** (Institute of Economic Applied Geology)
- **Biotechnology Center**
- **Center of Optics and Photonic**
- **CI<sup>2</sup>MA** (Center of Research in Mathematical Engineering)
- **Idea Incuba** (Business Incubator)
- **TIGO** (Geodesic Research)
- **UDT** (Technological Development)
- **CIEP** (Center for the Aquatic Ecosystems of Patagonia)

# Advanced Research at the University of Concepción

- 455 ISI publications
- 545 Research Projects
- 87 Research Groups
- 77 Patents (Request Files)
- 4 Technological Consortia
- 453 Industrial projects
- 150 R&D partnership
- 2 Business Incubators
- 1 Scientific-Technological Park Project



# Communication, Sport and Art



# Radio "Universidad de Concepción" 95.1 AM/FM

The screenshot displays the website for Radio Universidad de Concepción. At the top, a navigation menu includes links for 'Principal', 'Historia', 'Música Selecta', 'Programación', 'Equipo', 'Archivo Sonoro', and 'Contacto'. Below the menu, there are several content sections:

- Esta semana escuche**: A section with a sub-header 'Archivo Sonoro' and a paragraph: 'Hemos incorporado algunas ediciones del microespacio "Lo Que Cuentan Las Estrellas". Ahora puede escucharlas on-line.' Below this, a program listing for December 11-16 is provided.
- Ambiente Regional**: A section with a sub-header 'Grandes músicos de Jazz' and an image of a man playing a saxophone.
- Archivos de audio**: A section with a sub-header 'Actualidad Latinoamericana' and a paragraph: 'Elecciones en Ecuador y Nicaragua, cambio de mando en México. Con el periodista Jorge Pacheco y el historiador Arnoldo Pacheco.'

At the bottom of the page, there is a footer with contact information: 'Radio Universidad de Concepción: Sergio Levenchik - Director Radio Juan Rosalimann', 'Xunta Universitaria: Tasaes (051-41) 2409001 Tasaes (051-41) 2409002', and a small logo on the right.

# Open Television “Universidad de Concepción”

The screenshot shows the TVU website interface. At the top left is the TVU logo with the text "televisión Universidad de Concepción". To the right are navigation links: "PARRILLA / TARIFAS / REGISTRO / CONTACTO". Below this is a secondary navigation bar with "INICIO EMPRESA NOTICIAS PROGRAMAS CARTELERA COBERTURA INFRAESTRUCTURA".

The main content area features a large banner for "EN FAMILIA JUNTOS SOMOS MÁS" with a woman's image and the text "LUNES A VIERNES 14:30 HRS.". To the right is a "NOTICIAS TVU" section with a news anchor's image and the text "TVU Noticias" and "Producto de una clara política de expansión nace el nuevo sitio de nuestro canal. VER NOTICIAS". Further right is a vertical sidebar with "Juegos", "Millones", and "Entretención" categories, listing programs like "Kino" and "2REAL".

Below the main banner is an "ESTELARES" section with three featured programs:

- Noticias:** El único informativo que entrega sólo noticias locales, aportando al desarrollo y a la creación de identidad regional.
- Siempre Juntos:** Un programa de entretenimiento donde los conductores interactúan con distintos invitados y con los telespectadores.
- Amor al Arte:** Programa dedicado a la difusión del arte regional, en todas sus expresiones.

At the bottom, there is a row of logos for "U. de Concepción", "Radio La Discusión", "Lotería Internet", "Club Deportivo", and "Diario La Discusión".

# Newspaper

lunes 09 de abril del 2012 Última carga 01:00:35 PM GMT



BUSCAR

## LADISCUSION.CL

Opinión Noticias Economía Deportes Vida Social Vida y Cultura BlogsLD Sólo lectura Líneas de mujer



### Hinchas de Ñublense y Curicó protagonizan batalla campal en peaje de Talcahuano

Leer más



#### Último minuto

### #Piñera es el primer encuestado por el #Censo 2012

10:00



Hasta el domicilio particular del mandatario, ubicado en el sector oriente de la capital, llegó esta mañana una encuestadora del Instituto Nacional de Estadísticas (INE), dando de esta forma inicio al renovado Censo 2012.

09:34 Frecuación vehicular terminó en decomiso de drogas en #Chillán

08:23 Veintitrés personas murieron en accidentes de tránsito en el país durante fin de Semana Santa

Empresas  
Control de Flotas  
0,5 UF + iva mensual  
Reportes históricos.

SisCom

# Sports





## Art Gallery:

The largest and most valuable collection of Chilean painting in the country: 1.731 original paintings.





# The Faculty of Biological Sciences

# Frontal face of the Biological Sciences Faculty





# The Top of the Entrance



# Postgraduate Programs

## Ph.D. Programs

- ✓ Molecular and Cellular Biology (1997)
- ✓ Microbiology (2010): **3 years** of accreditation

## Master of Sciences

- ✓ Microbiology (1978): **9 years** of accreditation
- ✓ Physiology
- ✓ Biochemistry and bioinformatics

# Master of Sciences in Microbiology

	2008	2009	2010	2011	2012	2013	2014
Regulares	28	26	32	32	37	41	43
Extranjeros	4	4	5	5	5	4	0
Graduados	4	5	7	7	5	6	6
Al. Eliminados	2	1	4	3	2	2	1
Al. Renuncia	0	0	0	2	0	0	0
Pasantía	0	0	0	0	0	0	0

	2008	2009	2010	2011	2012	2013	2014
Nuevos	14	7	12	10	13	11	11

# International cooperation (Germany)



We believe in cooperation because we need to be supported with feedback and by scientific criticism to generate knowledge and grow up.

# Examples of cooperation with German Institutions

- University of BONN 2004
- University of BREMEN 2006
- University of LEIPZIG 2007
- University of BERLIN 2007
- University of MAINZ 2009
- Techn. University of MUNICH 2010
- Techn. University of BRAUNSCHWEIG 2011

# University of Heidelberg (2013 – 2019)

Die rechtliche Befugnis von Sergio Lavanchy Merino, die Universität Concepción zu vertreten, wird in dem Dekret U. de C. Nr. 2010-38 vom 14. Mai 2010 verliehen. Dieses Dokument ist mit gleichem Datum registriert im Notariat von Juan Espinosa Bancalari in Concepción und dem Protokoll Nr. 60, Repertorio Nr. 1639 am Schluss beigefügt.

Die Befugnis von Prof. Bernhard Eitel, die Ruprecht-Karls-Universität Heidelberg zu vertreten, kommt aus der Artikel 17 Absatz 1 des Landesgesetz über die Universitäten in Baden-Württemberg in der Fassung vom 14. Juli 2012.

Concepción, den \_\_\_\_\_

Heidelberg, den 16.05.2013



Last agreement signed by our faculty (2014 –  
2019)



Agreement on the joint supervision of doctoral theses

Between

University of Regensburg  
Faculty of Biology and Preclinical Medicine  
Represented by Prof. Dr. Udo Hebel, President

And

Universidad de Concepción  
Faculty of Biological Sciences  
Represented by Prof. Sergio Lavanchy, President

# Agreement lasting in five more years

## Article 12 Legal Effect

This agreement will be effective from the date of signature, signed by the two representatives of the two partner institutions at first for the duration of five years and will tacitly be prolonged for another five years. It can be cancelled in written form six month ahead of the termination of the agreement by each partner institution. The agreement is drawn up in six original copies. Each partner institution receives three copies that are equally legally binding.

## Signatures

Regensburg, **30.07.14**

The President of the University of Regensburg

Prof. Dr. Udo Hebel

Concepción, **08 AGO 2014**

The President of the Universidad de Concepción

Prof. Sergio Lavanchy





# ... Coming events



Hopefully, beyond Freiburg, Buenos Aires and Montevideo will be the next stop!

# Thanks

