

A. Personal Information

LAST NAME	SECOND LAST NAME	FIRST AND MIDDLE NAMES
Robinson	Eugenio	Betancourt Astete

RUT	DATE OF BIRTH (DD/MM/YYYY)	SEX (M OR F)	NATIONALITY
5.968.852-9	25 Mayo 1948	M	Chileno

ADDRESS (for correspondence)
San Martin 0410

REGION	CITY	PROVINCE
IX Región	Temuco	Araucania

E-MAIL ADDRESS	TELEPHONE NUMBERS (Indicate area code)
rbeta@ufro.cl	56 – 45 - 325975

INSTITUTION AND POSITION (In the case of a University, indicate Faculty, School, Department, etc.)
Associate Professor Mechanical Engineering Department Faculty of Engineering, Sciences and Administration Universidad de La Frontera

POSITION AT THE CENTER

B. Short Biography

This field is only for the responsible researcher of the group.

C. Academic Formation

ACADEMIC DEGREES AND PROFESSIONAL STUDIES	UNIVERSITY	COUNTRY	YEAR
Professional Titles			
Ingeniero Mecánico	Técnica del Estado	Chile	1974
Academic Degrees			
Magister en Ingeniería	Técnica Federico Santa María	Chile	1987
Doctor (Candidato)	Politecnica de Madrid	España	2009

D. Academic and Work Activities

POSITION	INSTITUTION (indicate university, faculty, school, department)	TYPE OF CONTRACT	HOURS PER WEEK
Académico	Universidad de la Frontera	Jornada Completa	44

E. Research lines

Combustion, thermal processes

F. Investigation projects (during the last 5 years)

YEAR		PROYECT NUMBER AND TITLE	FUNCTION <i>(Principal or secondary investigator)</i>
Start date	Finish date		
2005	2006	FONDEF D0311106 <i>Desarrollo de sistemas de control en equipos de combustión, mediante análisis fotónico en Línea de la Llama</i>	Secondary investigator
2007	2009	FONDEF D05I10391 <i>Utilización de Brassica Napus para la producción de Biodiesel: Desarrollo y optimización del Proceso</i>	Director
2009	2012	FONDEF D07I1096 <i>Bases tecnológicas para la creación de la industria de ecofertilizantes mediante el uso de biocarbón producido a partir de residuos biomásicos</i>	Secondary Investigator

G. Publications. Indicate the number of ISI, NON-ISI, SCIELO or OTHER publications, written to date. Also provide the main publications written during the last 5 years. In the case of books, indicate whether it was the entire book or one/particular chapters.

Authors	Farias Oscar, Jara Francoise, Betancourt Robinson							
Manuscript Title	Theoretical and experimental study of the natural draft in chimneys of building for domestics gas appliance							
Journal Name	Energy and Buildings							
Reference	Year	Issue	Pages	Stage of publication at date				
	2008	40(5)	543-547	Published	X	In press		Accepted

PATENT

United States Letters Patent entitled "A COMBUSTION CONTROL SYSTEM OF DETECTION AND ANALYSIS OF GAS OR FUEL OIL FLAMES USING OPTICAL DEVICES" Attorney's Docket No. HCL-016, Serial No. 12/139,657, filed the 16th day of June, 2008. Farias O., Sbarbaro D., **Betancourt R.**

H. Presentations at National/International Congresses

List the presentations made during the last 5 years, indicating Authorship of the presentation, the Title of the paper, Name of the Congress, Location, Date and page of the congress minutes. Also indicate whether the paper was written in conjunction with another member of the Center (Write in Verdana size 10)

Fariás O., Sbarbaro D., Arias L., **Betancourt R.** (2008) "*Development and application of the optiflamma system for monitoring and control of combustion*" XIII Congreso Chileno de Ingeniería Mecánica Universidad de Tarapaca – Arica

R. Hunter, **R. Betancourt**, R. Delgado (2008) "*Modelo de conocimiento: Un acercamiento para modelar el comportamiento de motores de encendido por compresión que utilizan biodiesel*" XIII Congreso Chileno de Ingeniería Mecánica Universidad de Tarapaca - Arica

Hidalgo, P., **Betancourt, R.**, Antileo, C. (2008), "Alternativas de purificación para biodiesel obtenido por catálisis alcalina" *XXXI Congreso Latinoamericano de Ingeniería Sanitaria y Ambiental* Octubre 12-15, Santiago Chile

Betancourt R., Casanova J., & Delgado R., (2008) Diagnóstico de procesos de combustión utilizando biodiesel "*Primer Congreso Argentino de Ingeniería Mecánica CAM 2008 1,3* Octubre, Buenos Aires, Argentina

Azócar L., Scheuermann E., Hidalgo P., **Betancourt R.** & Navia R. (2007) Biodiesel production from rapeseed oil with waste frying oil. *ISWA / NVRD World Congress*, Sep. 24-27, Amsterdam, The Netherlands.

Betancourt R., Navia R., Hidalgo P. & Merino B. (2007) Full-scale biomass gasification: a case study. *ISWA / NVRD World Congress*, Sep. 24-27, Amsterdam, The Netherlands.

Betancourt R., Casanova J., Navia R., Hidalgo P., Antileo C., Curaqueo C. & Azocar L. (2007) Elaboración de biodiesel a partir de brassica napus. *IV Congreso Nacional y I Congreso Ibérico de Aroingeniería*, Sep. 4-6, Albacete, España.

Navia R., Hidalgo P., **Betancourt R.** & Antileo C. (2006) Producción de biodiesel a partir de aceite de raps (brassica napus) a escala laboratorio y planta piloto. *I Congreso Latinoamericano Biorrefinerías*, Nov. 21-22, Concepción, Chile.

Betancourt R., Casanova J., & Fariás O., (2006) Estudio Teórico Experimental de la Utilización de Esteres Metílicos de Brassicas Napus como Combustible "*I Congreso Latinoamericano Biorrefinerías*" , Nov. 21 – 22 Concepción, Chile

Betancourt R., Casanova J., & Hidalgo P., (2005) Diagnóstico de la combustión en un gasificador de biomasa mediante análisis óptico de llama "*Tercer Congreso de Agroingenierías 21 -24 Septiembre 2005 León España*

I. Undergraduate teaching

Thermodynamics

J. Dissemination and Transfer

Indicate activities of dissemination, technology transfer and research results transfer and others with impact on Chilean society and/or economy in the last 5 years.

K. Awards and Distinctions

Indicate any awards or distinctions obtained.