

MARÍA TERESA GAMBA: CURRÍCULUM VITAE

SENIOR GEOLOGIST.

MINING: PROSPECTION, EVALUATION AND DEVELOPMENT.

EARTH SCIENCES SPECIALIST, ENVIRONMENTAL MANAGEMENT.

DISASTER RISK MANAGEMENT, DISASTER RISK REDUCTION SPECIALIST. HCT.

EARLY RESPONSE AND POST CRISIS RECOVERY.

PERSONAL DATA

Last name: Gamba

Name: María Teresa

Date and place of birth: July 4, 1961 in Salta, Argentina.

Nationality: Argentinean

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ACADEMIC BACKGROUND

- Master in Geological Sciences, University of Buenos Aires, Argentina, 1987
- PHD THESIS, "Geology and genetic aspects of Los Guindos Scheelitic District, Córdoba Province, Argentina", University of Buenos Aires, Argentina. 2007
- Master in International Conflict and Resolution. National University of Tres de Febrero. Buenos Aires. Argentina. 2010.
- Bachelor in Business Administration. 1980. Carlos Pellegrini
- Post-graduated study: The Solid and Fluid Earth, 1988. University of Miami. United States of America.

LANGUAGES

Fluent in Spanish and English.

Fair: Italian, French and Portuguese.

PRESENT PROFESSIONAL POSITION:

November 2016 to date: Manager in Mining, Geological, Petrophysical and Environmental Area. Sinectica Associated Consultants LLC.

October 2017 to date: Prospective mining studies and evaluation in Lincoln, Otero County, New Mexico. USA.

Program Manager: Mining and Environmental Studies Experience

2009-2011

Name of employer: San He Hope Full Grain Ltd.

Project: Zapla Iron Mines. Economic and Environmental Evaluation for Rehabilitation.

Location: Jujuy State. Argentina.

Name of employer: SinoRosa Resources.

Project: Mine Projects: Economical and Environmental Analysis. Doña Elena, Las Gatas, La Labor, El Daivies, etc. Heavy metals mines.

Location: Jalisco and Colima States. Mexico.

2007-2008

Name of employer: Gulf Coast Environment, Inc.

Project: Arco Iris Iron Mine. Economic and Environmental Evaluation.

Location: Jalisco State. Mexico.

Name of employer: SinoRosa Resources.

Project: Mine Projects: Economical and Environmental Analysis. Doña Elena, Las Gatas, La Labor, El Daivies, etc. Heavy metals mines.

Location: Jalisco and Colima States. Mexico.

2005-2006

Environmental Impact Statement. El Portón oil field Project. Neuquén, Argentina.

2004

Environmental Impact Statement. Calcatreu gold Project. Patagonia Argentina.

1995-1998

Personalizar S.A. Environmental Impact Evaluations Expert: Air, Soil, water, geomorphology, stratigraphy and mining studies. Professional License Number: 1070. Some evaluated enterprises: Akapol (Poxipol), Gattic S.A (Adidas), Demibell (Caro Cuore), Virulana S.A., Cintolo Hnos., Cidec S.A., Azyder SACIFI, CueroSur, Parmalat S.A., Sancor, Lacterías Suiza, Okebon S.A., Agencaissa S.A., Kimberly Clark SA, etc.

PROFESSIONAL POSITIONS OIL/GAS RELATED

- 2008 to 2015: Manager in Geological, Petrophysical and Environmental Area. Sinectica Associated Consultants.
- ❖ 1999-2000: Geological Hazards and Geological Risks Mapping Expert. Works performed for Aeroterra S.A, TGS and Transener (Argentina) on pipelines and high voltage electric lines. Geological and Environmental Risk Evaluations by GIS.
- ❖ 1996-1997: Geological Hazards and Geological Risks Mapping Expert. Works performed to Aeroterra S.A., YPF (Argentina), Maxus (Venezuela) on pipelines and oil deposits. Geological and Environmental Risk Evaluations by GIS.

PROFESSIONAL POSITIONS AT UNITED NATIONS

October 2015-October 2016: UNDP Malaysia. Disaster Risk Reduction Specialist. UNV Support to enhancing capacity of United Nations Plan of Action on Disaster Risk Reduction for Resilience in South and East Asia and Pacific Project ID (Award): 00084544 Regional - Asia-Pacific.

2014: Short listed for Program Manager Argentina. UNDP.

2003: Project title: UNV/WHI Support to Czech Republic in activities of soil reconstruction after the floods occurred in August 2002

Country: Czech Republic

Duty Station: Prague, Bohemia, Moravia

Roster No: 262049. Project No: CEH03VO1

Outputs:

Finalized Project document Technical Report on Czech Republic environmental situation after 2002 major floods". Argentinean Geological Survey and White Helmets Library. Pp 65.

Conducted seminars on the Project with identified stakeholders in round tables and courses.

2001: Project title: Drought Proofing Through Watershed Development and Eco-Regeneration for Vulnerability Reduction.

Country: India

Duty Station: Bhuj – Gujarat

Roster No: 262050 Project No: INDR0198

Outputs

Finalized Project document: "Drought Proofing through Watershed Development and Eco-Regeneration for Vulnerability Reduction". Argentinean Geological Survey and White Helmets Library. Pp 110.

Conducted seminars on the Project with identified stakeholders in round tables and courses.

Short-Listed for the following Posts:

2007: United Nations Volunteers (UNV) Hazardous Waste Specialist "National Framework for Solid Waste Management and action plan for Hazardous Waste Disposal in Libya" Post Code: 00055477-2.

UNITED NATIONS SPECIALIST for Disaster Risk Management post in Vanuatu. Post Code:
VAN/R/0010

2008: United Nations Development Program (UNDP)

"Preparatory assistance capacity development for disaster risk reduction".

International consultant. Type of contract: SSA.

Trinidad and Tobago. Port of Spain.

October 2008

Program Manager: Disaster Management Experience

- ❖ 2004-2008: Patagonian Environmental and Polytechnical Research: renewable energy (winds, solar, bio, hydro, geothermal, wave, tidal). Perito Moreno Government.
- ❖ 2003-2004: Neuquén River. Contamination with heavy metals. Analysis, maps and conclusions.
- ❖ 2001-2002: Trevelin City. Toxicity in environmental sites.
- ❖ 2002-2001: Rosario Lake. Patagonia Argentina. Eutrophication causes and solutions.
- ❖ 1999-2000: Geological Hazards and Geological Risks Mapping Expert. Works performed for Aeroterra S.A., TGS and Transener (Argentina) on pipelines and high voltage electric lines. Geological and Environmental Risk Evaluations by GIS.
- ❖ 1996-1997: Geological Hazards and Geological Risks Mapping Expert. Works performed to Aeroterra S.A., YPF (Argentina), Maxus (Venezuela) on pipelines and oil deposits. Geological and Environmental Risk Evaluations by GIS.

Social Studies

2000-2006: Social and Political Program in Patagonia: Working with “mapuches” groups building natural camps for tourists. Teaching how to protect of natural environments against eutrophication. Workshop on garbage management, on groundwater protection, on coastal erosion, etc. UCA. Buenos Aires, Argentina.

Prizes, Scholarships

UNESCO: *First International Forum on the Social Science - Policy Nexus. February 2006*

Association of Geoscientists for International Development. William Greenwood Scholarship Fund. May 1996.

Teaching Activities

- ❖ 2005-2008: Lecturer in “International Negotiation and trading”. UCA. Argentina.
- ❖ Patagonian Environmental and Polytical Research: renewable energy (winds, solar, bio, hydro, geothermial, wave, tidal). National University of Buenos Aires.
- ❖ 2000: Lecturer in “Environmental Mining Problems”, University of La Plata, Argentina.
- ❖ 1997-1998: Lecturer-Coordinator in “Geography”. University of Moron, Argentina.
- ❖ 1995-2001: Lecturer in “Mining Risks”. University of Moron, Argentina.
- ❖ 1996-2001: Lecturer in “Atmospheric Contamination Control”. University of Moron, Argentina.
- ❖ 1995-1998: Teaching Assistant of “Ore Petrography” and “Economic Geology”, University of Buenos Aires, Argentina.
- ❖ 1994-1995: Lecturer in “Physical Geography and Geology”. University of Moron., Argentina.
- ❖ 1992-1993: English instructor/ Translator, Cardenal Stepinac College. Buenos Aires. Argentina.
- ❖ 1991-1995: Assistant Professor Soil Mechanics, Ingeneering Faculty, University of Moron, Argentina.
- ❖ 1985-1990: Our Lives Foundation (and others). Major achievements: technical support and instructor in the development of soil-brick factories to poverty rural communities in Buenos Aires, Argentina.
- ❖ 1993-1995: National Council of Scientific Research (CONICET). Argentina. Senior researcher.
- ❖ 1990-1995: Director of the Laboratory of Soil and Materials Mechanics. Engineering Faculty. University of Morón, Argentina.
- ❖ 1984-1987: Economic Geology Teaching Assistant, University of Buenos Aires,Argentina.

FIELD EXPERIENCE

Worked as DRR Specialist and environmental geologist in:

- Malaysia
- Mexico
- Czech Republic.
- Barcelona. Spain.
- Peru. Puno.
- India. Bhuj. Gujarat State. Kachchh area.
- Venezuela (Amazonas Jungle, Caracas City in El Avila National Park)
- Chile (Atacama desert).
- Brazil (Porto Allegre and Recife).
- Argentina: in 10 states.

Mining Studies

Metallogenic Districts Studies : Tungsten and gold at Córdoba Province, Gold in Patagonia, Uranium in Patagonia. Iron in Jujuy.

Mine Studies: Gold in Neuquen and Jujuy, Barite in Neuquen, Scheelite in Cordoba, Stone and soil quarries in Buenos Aires.

GIS SKILLS

Studies at University of Miami, University of Buenos Aires and Aeroterra S.A.

Experience in: Erdas, Airmapper, Arc Info, Arc View, Arc Explorer, MapInfo, Idrisi.

RESEARCH PROJECTS

2001-2003: Environmental Impact Evaluation of the Pinturas River, “Painted Hands Caves” Archeological Site, Santa Cruz Province, related with a probable mining exploitation. University of Morón, Argentina.

1997-2000: Co-director “ Mercury contamination in natural environment due to gold mining. Neuquen River Case, Neuquen Province. Argentina”. University of Morón

1997-1998: Environmental Impact Evaluation of the PIBAM (Industrial Park Buenos Aires-Moron). Buenos Aires Government and National Education Bureau.

1997-1998: Auto sustainable Recovery of soil and stone quarries in the NW of Buenos Aires Province. Buenos Aires Government and National Education Bureau.

1993-1997: “Metallogeny and prospection of metaliferous ores related to Eastern Pampean Ranges basement (W, Cu, Au, Ni, Co, Cr, Fe,Ti, Pt)”. UBA-CYT 91-93 Grant, University of Buenos Aires.

1991-1993: Metallogeny of metaliferous ores related to mafic-ultramafic rocks in Center - Western of Cordoba Province (W, Cu, Au, Ni, Co, Cr, Fe,Ti, Pt)”. UBA-CYT 91-93, University of Buenos Aires.

Argentinean Geological Survey

- a. 2004-2008: Posadas Geological Sheet (Corrientes and Misiones Province). 1:250.000. Project Manager.
- b. 2001-2003: Villa de Soto Geological Sheet (Córdoba Province). 1:100000. Project Manager.
- c. 1999-2000: Los Altares Geological Sheet (Chubut Province). 1:250.000. Project Officer.
- d. 1998-2000: Pampa de Olaen Geological Sheet (Córdoba Province). 1:100.000. Project Officer.
- e. 1998-1999: Los Gigantes Geological Sheet (Córdoba Province). 1:100.000. Project Officer.
- f. 1998-1999: Argentinean Geological Survey (SEGEMAR). Geothermal Projects Division.
- g. 1999-2010: Argentinean Geological Survey (SEGEMAR). Regional Geology Development and Mapping (IGRM). Works on: Regional Geological-Geomorphological Maps

Others

1981-1985: Expert in Ores Exploration and Evaluation. Environmental and Natural Resources Bureau, Territorio Federal Amazonas, Venezuela. Project Officer.

PUBLICATIONS

- Maria Teresa Gamba and Antonio Giulianotti. 2008. "El Torno ore, Jujuy Argentina: Preliminar Economic Analysis". Acts XVII Argentinean Geological Congress. Vol III. Pp 1429-1430.
- Maria Teresa Gamba, David Davidson, TL Mancuso and Armando Trujillo. 2008. "Arco Iris Mine, Mexico: Metallogenic aspects and Economic evaluation. Acts XVII Argentinean Geological Congress. Vol III. Pp 1427-1428.
- Maria Teresa Gamba. 2007. "Technical Report on Czech Republic environmental situation after 2002 major floods". SEGEMAR LIBRARY. Pp 65.
- Maria Teresa Gamba. 2006. "Drought Proofing Through Watershed Development and Eco-Regeneration for Vulnerability Reduction". SEGEMAR LIBRARY. Pp 110.
- María Teresa Gamba, Héctor J. Fasoli, Carolina Lavallol and Agustina Caride. 2005. Rosario Lake, Chubut, Argentina: Environmental and Social Parameters related with the eutrophication process. XVI Congreso Geológico Argentino.
- Gamba, M. T. y Anselmi, G. 2004. Structures in the original sedimentation of Pampean Ranges. Córdoba, Argentina: Formación Tuclame. Congreso Latinoamericano de Geología.
- María Teresa Gamba and Sumesh Sundaram. 2002. Geological and Environmental Studies of Kachchh, region, NW India. Geology for the community. XV Argentinean Geological Congress. Abstract and CD room document 412.
- María Teresa Gamba and Héctor J. Fasoli. 2002. Environmental Risk studies of Percy River next to Trevelin City, Chubut Province, Argentina. XV Argentinean Geological Congress. Abstract and CD room document 409.
- Gamba M.T. and Anselmi, G. 2001. Barite mineralizations in the Pichiñanes mountains, Norpatagonia, Chubut, Argentina. XI Congreso Latinoamericano de Geología. Abstract 14-6 and CD room document 117.
- Gamba M.T. and Gaido, M.T. 2001. Metallogeny of wolframite veins deposits from San Alberto department, Cordoba, Argentina. XI Congreso Latinoamericano de Geología. Abstract 8-8 pp and CD room document 95.
- Gamba M.T., 2001. Heavy Metal Contamination in industrial soils in West Buenos Aires. Published.
- Gamba M.T., Brandstatter F. and Kurat G. 2000. Chondritic Meteorites Aguas Calientes (H4), Casilda (H5) and San Luis (H5) (Argentina): Chemical and petrologic Analysis. Acts Congreso Geológico de Cuba.
- Gamba, M.T; Rubinstein, N. A. and J. C. Candiani. 2000. Hydrothermal Alteration in Tungsten Ores of the Laguna Brava Group, Cordoba Province, Argentina. IX Congreso Geológico Chileno. Acts. Vol. 1. 2:215-218.
- Gamba, M.T. 2000. Metallogeny of Pampa de Olaen, Cordoba Province, Argentina. 31 International Geological Congress.
- Fasoli, H. J. and Gamba, M.T. 2000. Mercury Pollution In Gold Exploitations At El Mayal, Neuquen Province, Argentina. 31 International Geological Congress.
- Gamba, María Teresa. 1999. "Scheelitic District Pampa de Olaen. Córdoba Province". In Mineral Resources of Argentina. Volume I: 251-256. Annals 35. Instituto de Geología y Recursos Minerales. Servicio Geológico Minero Argentino (Editor). 932 pp. Buenos Aires.
- María Teresa Gamba, Gómez, Carlos and Fasoli, Héctor. 1999. "Soil and Stone quarries of Luján: Background studies for auto sustainable recovery". Revista de Geología Aplicada a la Ingeniería y al Ambiente. 13: 43-58.
- Gamba, M.T. 1999. Vulcanogenic genesis of scheelite ores of Pampa de Olaen, Córdoba

- Province. Argentina: Geochemistry interpretation of metamorphosed protolites. Resume do trabalos I Simposio de Vulcanismo y Ambientes Asociados, pp 93. Brasil.
- María Teresa Gamba and Héctor J. Fasoli. Mercury Pollution: Microgeochemical Study of gold Samples. Mayal Hill. Neuquen Province. Argentina. 1998. Actas X Congreso Latinoamericano de Geología y VI Congreso Nacional de Geología Económica (3): 256-261.
 - Omar Contreras, María Teresa Gamba and Nora Rubinstein. 1998. Tócome River Migmatites, El Avila National Park, Edo. Miranda, Venezuela. Actas X Congreso Latinoamericano de Geología y VI Congreso Nacional de Geología Económica (2): 269-273.
 - M. T. Gamba, Susana J. Segal and Alfredo Sanchez. 1997. Mining Environmental Impact. First Argentinean Encounter of Ecology and Environment. Termas de Río Hondo, Actas: 431.
 - Susana J. Segal and María Teresa Gamba. 1997. Mining acid waters, their environmental effects. First Argentinean Encounter of Ecology and Environment. Actas: 432.
 - María Teresa Gamba. 1996. Ag, Bi and Sn minerals in Loma Pajosa Mine, Los Guindos Scheelitic mining District, Córdoba Province, Argentina. III Reunión de Mineralogía y Metalogénesis. Actas. Publicación del Instituto de Recursos Minerales.. N^o5:119-121.
 - María Teresa Gamba, F. Brandstatter and Gero Kurat. 1996. Aguas Calientes (H4), Casilda (H5) and San Luis (H5) chondrites (Argentina), mineralogy and classification. XIII Congreso Geológico Argentino. III Congreso de Exploración de Hidrocarburos. Actas. Vol III:287.
 - María Teresa Gamba and Jorge Luis Gamba. 1995. Strategic Ores in Venezuelan Amazon. History of the prospection and retroactive analysis. 1970-1974. IX Congreso Latinoamericano de Geología. Caracas, Venezuela, Mineral Resources. 242. Cd name: AMAZONAS.
 - María Teresa Gamba. 1994. Economic Evaluation of placer gold in the Mayal Hill, Neuquen Province. Argentina. V Congreso Nacional de Geología Económica. Simposio de Metalogenia Andina de Sudamérica. San Juan. Actas. Pp 346-356.
 - María Teresa Gamba and Liliana Castro. 1994. Economic Evaluation of placer gold in Neuquen River, Neuquen Province. Argentina. II Congreso Cubano de Geología y Minería. Reuniones de los Proyectos 322 y 308 del Programa de Correlación Geológica (PICG). pp 92-93.
 - Liliana Castro and María Teresa Gamba. 1994. Sedimentary gold of the Neuquen River and Cerro Mayal stream deposits, Neuquen province, Argentina. 14th International Sedimentological Congress. Abstracts. pg J-9-10.
 - María Teresa Gamba. 1994. Chemical Genesis of Gold in the Mayal Hill Deposits, Neuquen Province. Argentina. II Reunión de Mineralogía y Metalogénesis. La Plata. pp 119-129.
 - María Teresa Gamba and Nora Rubinstein. 1993. Microfábricas of granitic rocks in Los Guindos mining District, Córdoba Province. IX Reunión de Microtectónica. Mendoza. XII Congreso Geológico Argentino. Abstracts.
 - Magazine: "Environment and Society". Language: Spanish. Country: Argentina.
 - "Too Much Noise: too Less Health". 2:10. September 1997. Pg 42-46.
 - "The Sixth Extinction". 2:9. July 1997. Pg 42-46.
 - "The Early Evolution of Life". 1:5. September 1996. Pg 32-35.
 - "Paleontology: History of the History of the Life". N^o4. August 1996. Pg 32-34.
 - "Volcanism: The Forgotten Ghost". 1:3. May 1996. Pg. 14-18
 - "Geophysics: The Revealed Earth". 1:2. March 1996. Pg.8-10.
 - "Flying over Earth Planet". 1:1. December 1995. Pg.4-5.
 - Environmental Emphasis. Argentina: "Soils environmental diagnostic. National Laws". 3:34. August 1997. Pg 42-46.

COMPUTER SKILLS

Diagramming. Programming experience. Software development.

Softwares: Windows, Auto-cad, Corel Draw etc.

Geological softwares: RockWare, Newpet, igpet, Met-pet, gpp, etc.

GIS products: ERDAS, ArcView, ArcInfo, Idrisi, MapInfo, etc.

References, papers and reports available upon request.