

Alejo Oscar Sfriso

Practice Leader



Profession	Civil Engineer
Education	Doctor in Engineering, Univ. of Buenos Aires, 2010. Civil Engineer, Univ. of Buenos Aires, 1993.
Registrations	CPIC # 15.131. CIPBA # 45.949.
Affiliations	SAIG/ISSMGE, ISRM, ASAGAI/IAEG, ASCE, IGS, IACMAG, AATES/ITA, CAP/ICOLD.

Specialization Geotechnical Engineering; Underground Works; Computational Geomechanics.

Expertise Dr Alejo Sfriso is a Practice Leader and Principal Consultant (Geotechnics) in SRK's Buenos Aires office with +25 years of experience and projects in +25 countries.

He is an expert in the application of numerical methods to the design, analysis and risk evaluation of geotechnical structures like foundations, tunnels, dams, retaining structures, slopes, open pit and underground mining, and ground improvement, with emphasis in construction procedures.

Alejo belongs to twelve professional associations, including ISSMGE, ISRM, ICOLD and ITA. He is the Vice President for South America of the ISSMGE for the period 2017-2021, was President of the Argentinean Society for Geotechnical Engineering in the period 2011-2015. Alejo serves as Professor of Soil Mechanics and Geology at the University of Buenos Aires and has +80 publications.

Employment record

2009-present	SRK Consulting (Argentina), Managing Director.
1993-present	AOSA SA, Director.
1989-present	University of Buenos Aires, faculty member, professor since 2006.
1996-2015	University of La Plata, professor of geotechnical engineering.
1993-2009	VS Consultores SA, Director.

Corporate roles in SRK Global

2016-2018	Board Member.
2018-present	Coordinator of the Technical Committee.
2019-present	Regional Coordinator for South America

Languages Spanish – speaks, reads and writes (mother tongue);
English – speaks, reads and writes (fluent).

Professional experience

Ground investigation

From 1980 to 1993, laboratory technician at Triaxis Geotechnical Laboratory. He personally executed drillings, field and lab testing. In 1993 he became Director of the company changing its name to *Alejo O. Sfriso y Asociados (AOSA)*. Either produced or reviewed more than 3000 reports related to geotechnical exploration for civil, mining, infrastructure and energy projects (www.aosa.com.ar).

Mining geotechnics

Lithium mining: foundations, ponds, construction camp, process plants and infrastructure in AR: Salars Hombre Muerto, Pastos Grandes, Caucharí/Olaroz, Pozuelos, Rincón.

Open pit mining: stability analysis and design in AR: Veladero, Bajo La Alumbraera, Cerro Vanguardia; GT: Compañía Guatemalteca de Níquel; CL: Los Pelambres, El Teniente.

Underground mining: stability analysis and design in AR: Manantial Espejo; CL: Andina, El Teniente, Los Bronces; UY: Arenal Deeps, San Gregorio.

Mine waste: stability analysis, design, numerical modeling and/or review of starter dams, waste dumps, heap leaches, tailings dams and ancillary structures in *AR*: Pirquitas, Cerro Vanguardia, Lindero; *BR*: CBA; *CA*: Langlois, Trilogy metals; *CL*: Escondida, El Teniente, Los Bronces; *CO*: Marmato; *PE*: Cerro Tamboraque, Toromocho, Cerro Lindo; *IRL*: Curraghinalt; *AU*: Olympic Dam, Solomon, Cannington; *ZA*: Mega Sebeke, Mototolo, Tronox, Molagakwena; *AM*: Kapan; *MX*: Peña Colorada, Las Cuevas, Kouras, Ciénega, Velardeña, Sabinas; *PNG*: Frieda River.

Closure: *AR*: Veladero; *CL*: Los Bronces, Escondida.

Infrastructure in mines: foundations, roads, retaining structures, slopes, tunnels and earthworks in *CL*: Escondida, Antamina, Los Pelambres, Los Bronces, Caserones, El Teniente; *BR*: Corumbá; *AR*: Josemaría, Pirquitas, Pascua Lama, Potasio Río Colorado; *MX*: Los Mulatos; *PE*: Toromocho; *CO*: Gramalote; *FI*: Kittila.

Energy geotechnics

Thermal power plants: *AR*: Central Puerto (Mendoza), Central Puerto (Buenos Aires); Río Turbio, Central Costanera, Brigadier López, Ensenada Barragán; *BR*: Parnaíba, Jaguaritica, Barcarena; *MX*: Pesquería, Central Norte 3.

Wind farms: *AR*: Bajo Hondo I, Bajo Hondo II, ENEL Bahía Blanca, Serrana, Parque Pampa; *CL*: Totoral.

Ducts: *AR*: Magallanes, Martínez, Picasa Crossing, Trasandino pipelines; *PE*: Paritori Bridge in Camisea.

Nuclear powerplants: *AR*: Atucha III, CAREM 25, RA-10.

High Voltage Transmission Lines: *UY*: Melo – Maldonado; *AR*: Caracoles – Punta Negra, Diamante – Charlone, Trelew – Río Turbio, Choele-Choel – Puerto Madryn.

Refineries: *AR*: Axion Campana, YPF CILP, YPF CIE; *PE*: Talara; *TT*: Petrotrin.

Oil&Gas: *CA*: Kitimat; *AR*: Genelba, Kinteroni, shale-gas Total, Río Cullén, Corcobo, El Jagüel, Cañadón Alfa, Aguada San Roque, Aguada Pichana, Wintershall NQN; *EC*: AUCA; *SAU*: Rabigh.

Transportation geotechnics

Airports: *AR*: Aeroparque Buenos Aires, Tucumán Airport; *PE*: Chinchero, Cuzco Airport.

Roads and bridges: *AR*: Panamericana Highway, Autopistas Urbanas Sociedad Anónima, Paseo del Bajo, General Paz Avenue, and several other bridges in Argentina.

Railways: *AR*: San Martín Viaducts, Mitre Viaduct, Belgrano Railway.

Ports: *AR*: Dreyfus Port, San Nicolás, Parque de La Memoria, La Plata, Euroamérica, Alto Paraná, Rawson breakwater, Buenos Aires Port, Astilleros Príncipe y Menghi, Exolgan, Alianza, Shell Inflamables, Tecplata, Terminal Zárate, Galván port, Carena Wharf Puerto Belgrano, Muelle TRP; *UY*: Montevideo, Montes del Plata, M'Bopicuá, Ontur; *HN*: Puerto Cortés; *PE*: Bahía Ancón.

Tunnelling geotechnics

Railway tunnels: +40 tunnels and +10 underground stations for *CL*: Metro of Santiago, lines 1, 2 y 4; *AR*: Buenos Aires Underground, lines A, B, C, D, E, (future) F, H, RER Project and Sarmiento Underground.

Hydraulic tunnels: *AR*: III Main Wastewater, Maldonado Sewer, Vega Sewer, South Emissary AySA Lot 1, Lot 2 and Lot 3, Los Caracoles spillway, Tigre – San Fernando aqueduct; *CL*: Quilleco.

Road túneles: *AR*: Mujer Urbana tunnel; *CL*: La Pólvara, Puente Alto.

Hydraulic geotechnics

Aqueducts: *AR*: Río Colorado Aqueduct; *CL*: El Morro, Sierra Gorda, Puente Alto.

Intake/discharge structures: *AR*: Central Puerto (Buenos Aires); Brigadier López, Ensenada Barragán.

Sanitary projects: general consultant of National Agency for Hydraulic Works and Environmental Sanitary Projects.

Dams and hydraulic plants: *AR*: Los Molinos, Escaba, Batiruaná, Los Caracoles, Tambolar; *CL*: Los Cóndores, La Laja, Ancoa, Puntilla del Viento; *CR*: Reventazón.

Civil geotechnics

Industrial facilities: *BR*: Fate Guaibas; *AR*: Fate Buenos Aires, Air Liquide, Glucovil, Dupont, Siderca, Siderar, Profertil; *US*: Petmin.

Large buildings: *AR*: Alvear Madero, St. Regis, Madero Office, Madero Harbour, Colón theatre, Rivadavia, La Nación Building, Coto Botánico, Callao Clásico, Palermo horse-race; *PY*: Blue Tower Asunción; *CL*: Security, Territoria; *BO*: World Trade Center La Paz.

Private condominiums: *AR*: La Lomada, Haras del Pilar, Nordelta, Santa Bárbara, Ayres del Pilar, Tortuguitas, Venice and Country Abril.