

Meet the experts

GaffneyClineTM
energy advisory





Dr. NAMSU PARK, Consulting Director

Namsu is a geomechanics and subsurface domain expert and currently leads Consulting team within GaffneyCline energy advisory. His focus has been providing value-added expert solutions to help mitigate risks, optimize operations, and maximize asset performance. He has been involved with numerous reservoir consulting projects from North America and around the globe. His technical background and experiences cover various aspects of subsurface consulting, 3D subsurface modeling and reservoir geomechanics.



DOUG PEACOCK, Senior Director, Geology & Value Assurance

Doug has 40 years' experience in geology and 3D reservoir modelling. His geological modelling experience covers a wide range of reservoirs in many parts of the world and ranges from building models for field development planning and reserves estimation purposes to reviewing and auditing models built by others. He has also worked extensively on reserves estimating, unconventional reservoirs, acquisitions and divestments, unitization & redetermination as well as CCS advisory projects. Doug has also served as an expert witness in several court cases.

Doug was an SPE Distinguished Lecturer for 2010-11 on the subject of reserves and was a member of SPE Oil and Gas Reserves Committee (OGRC) from 2013-2016 during the preparation of the 2018 PRMS and continues to serve on several reserves-related sub-committees. He is a routine presenter of PRMS reserves training courses on behalf of SPE and other bodies, having instructed over thirty such courses.



NICK FULFORD, Senior Director, Gas/LNG and Energy Transition

Nick has over 39 years' experience in the gas industry covering major M&A transactions, LNG and gas marketing in Europe, Asia, Caribbean and North America. He has a proven record in the natural gas sector, working on all aspects of the gas value chain from complex upstream projects, through to wholesale and retail market management, regulatory policy and trading. Nick expertise includes gas monetization, project structuring, markets and pricing; expert witness, gas and LNG price negotiations, and international natural gas trading. Nick has first-hand experience of the evolution of the UK and European gas markets and the evolving gas and LNG policy in Asia and North America.



ZIS KATELIS, Director, Geophysics

Zis is a Senior Geophysicist with a career spanning over 30 years working on seismic processing, interpretation projects and workflows, log data integration as well as contributing to and leading integrated technical studies. He has held various management positions for a major international oil and gas service company for both technical and operational business segments in Australia, Asia and the Middle East.

Zis advises on exploration and development technical projects as well as reserves and resources assessments, technical and commercial studies for conventional and unconventional reservoirs. Zis has also involved in unitization & redetermination, CCS projects, as well as expert witness submissions for court and arbitration proceedings.



ANDREW DUNCAN, Director, Facilities & Costing Engineering

Andrew has a background in Facilities and Costing Engineering, with over 40 years' of worldwide experience including at several international operating companies. He is an experienced project manager who has held a wide range of senior leadership roles within Southeast Asia, especially Indonesia. Andrew has worked extensively on reserves and resources assessments, asset acquisitions and divestments, decommissioning and restoration (D&R) scope and cost assurance, FLNG and CCS projects. The CCS projects include drafting company standards, legacy well integrity assessment, Measurement Monitoring and Verification (MMV) scope.



Dr. CHRIS FREEMAN, Director, Commercial & Engineering

Chris is a very experienced engineer with 35+ years in the industry and has also managed a wide variety of major projects. He has experience in major oil companies and consulting and has performed Executive Management roles such as CEO, Senior Partner and Director etc. and provided strategic advice to senior industry leaders and executives. He has a wide-ranging proven track record which includes field evaluation, (re- and further) development, reservoir management as well as acquisition and divestment. He has managed many of GaffneyCline's largest projects involving assets such as Sakhalin 2, Kashagan, Mumbai High, ACG as well as a host of Reserves estimations and CPRs.



Dr. MICHAEL SCHAAF, Director, Exploration & Strategy

Michael is Exploration & Strategy Director for GaffneyCline, providing advisory to clients to help them adapt, plan and manage their strategic, commercial and technical objectives across the petroleum and energy sectors. He brings 25 years of experience, with a proven track record in billion-dollar new business development, exploration strategy and execution, and project and change management.



RAWDON SEAGER, Director, Reservoir Engineering & Quality Assurance

Rawdon has over 50 years of experience in the international oil and gas arena, and has managed numerous field studies, reserve assessments and asset evaluations. He has made presentations within the industry relating to reserves estimating and reporting issues and has given expert testimony during arbitration hearings. Recently he has focused on CCS projects and the application of the SRMS and has been selected as a Distinguished Lecturer by the SPE on these topics. Rawdon is a Chartered Petroleum Engineer in the UK and is registered as a European Engineer with FEANI.



SHANE HATTINGH, Director, Reservoir Engineering & Value Assurance

Shane is a reservoir engineer and United Kingdom Chartered Scientist, with over 40 years of industry and research experience acquired working for oil companies and consultancies. He is experienced in reserves and resources estimation, auditing and reporting, integrated reservoir studies and field development planning, and has a specialist interest in reservoir modelling and numerical simulation, in particular fractured reservoirs.



DREW POWELL, Director, Energy Transition & Value Assurance

Drew is a Chartered Chemical Engineer (Fellow) with over 30+ years' energy and petroleum industry experience. Background includes business and project management, strategy, commercial evaluation, design disciplines in both upstream and downstream for major energy and petroleum companies, contractors and consultancies. More recently leading Energy Transition project activities including CCUS, Hydrogen and Carbon Management advisory services.



TIM BULLEN, Principal Advisor, Facility & Energy Transition

Tim is a consultant and project leader with over 30 years of experience in the energy and process industries including conventional and blue hydrogen, CCUS, LNG, power, and oil and gas. He has significant experience in CCUS and hydrogen developments including numerous project leadership roles in projects featuring hydrogen, CCUS and power.



OLIVIER POIX, Principal Advisor, Carbon Management & Energy Transition

Olivier is helping clients understand the wide variety of options available within the carbon management space that will ensure continued business success through the energy transition. Olivier brings 30 years of technical and commercial experience leading business strategy and project investments in the energy sector. His expertise includes value creation throughout the energy chain: prospecting, operations, transport, marketing/trading, structured finance, and risk management.



BASIL AL-SHAMMA, Principal Advisor, Reservoir Engineering

Basil has more than 25 years reservoir engineering and field operations experience with leading multinational oil, gas and service companies including ENI, Total, E.ON E&P. Areas of expertise include well test interpretation, reservoir characterization and modelling, uncertainty analysis, history matching and field development planning. In addition to integrated asset modelling, he also involved in due diligence projects. A focus on gas and condensate along with heavy oil fields in the North Sea and North Africa.



IRFAN SAMI, Principal Advisor, Reservoir Engineering

Irfan is 25 years experienced reservoir engineer having been involved in international oil/gas and CCS development projects. He has worked on projects for both E&P companies (OMV, Petronas, BP) and consultancies including Senenergy, Xodus, Halliburton. He has expertise in reservoir simulation, field evaluation, reserves reporting and assets due diligence. He is competent in field development, reservoir management and CCS project assessments integration with geoscience, drilling/completion, facilities and economics.



GUSTAVO RITONDALE, Principal Advisor, Reservoir Engineering

Gustavo has over 28 years of diverse oil and gas expertise in various technical positions. Has held multiple management roles in the oil and gas industry based in Argentina and USA. Performed reserves and resources assessments and comprehensive understanding of the PRMS and SEC guidelines including specific reporting regulations in LATAM countries. Technical evaluations in conventional and unconventional (shales) reservoirs, which include feasibility studies, volumetric estimates, development plan, material balance analysis, economic evaluations including risk assessments. Deep understanding in technical planning, capital allocation process and oil and gas business analysis decisions.



Dr. MEAD HUSSAIN, Principal Advisor, Reservoir Engineering

Mead is a UK Chartered Engineer with over 40 years' industry experience worldwide, especially in Iraq, Libya, the Caspian region and Sub-Saharan Africa. She is experienced in field development planning, reserves and resources assessments and is a long-standing contributor to governmental advisory projects. Mead is also bi-lingual in English and Arabic.



JOSHUA OLETU, Principal Advisor, Petrophysics

Joshua has over 30 years of experience in onshore and offshore (deepwater) E&P operations, reservoir characterization, technical due diligence, resources/reserves assessment and project management. He has extensive global experience in petrophysical evaluation of conventional (clastics, carbonates, fresh water, heavy oil) and unconventional (tight gas, shale gas/oil, coal bed methane) reservoirs. He has also provided technical support to equity re-determination and most recently CCS projects. A founding member of Society of Petrophysicists and Well Log Analysts 'SPWLA' special interest group (SIG) on Hydrocarbon Resources, currently the President of the SIG (2022- 2024).



**JORGE VLADIMIR FANDINO BETANCOURT,
Global Lead, Petroleum Engineering**

Vladimir has over 23 years of reservoir and petroleum engineering experience in operations, field development, R&D, business development and project management. He has proven experience in various types of assets in conventional and unconventional reservoirs, EOR, CCUS and gas storage around the globe in the North Sea, Continental Europe, Middle East, Africa, Rocky Mountains, Colombia, Venezuela, and Trinidad with consultancy companies, independent E&P companies, NOCs and multi-lateral organizations.



FRED WELTGE, Senior Advisor, Economics & Value Assurance

Fred specializes in oil and gas commercial evaluation, valuation, upstream contracts, national petroleum regimes, and industry movements. He has participated in a wide variety of projects that has culminated into a comprehensive understanding of industry best practices in evaluating and contracting oil and gas assets.



LINGANATHAN SIVACHALAM, Senior Advisor, Reservoir Engineering

Linga is a Chartered Petroleum Engineer (CEng) with over 29 years of experience in wide range of petroleum engineering studies and consulting, including management of commercial PVT Laboratories and working for an Operator. The engineering studies includes reservoir simulation, field development and planning, integrated production modelling, PVT/EOS characterization, reserve and resources assessments, and conduct technical and commercial due diligence of potential asset acquisitions, farm-ins, exploration, and field development and production enhancement opportunities.



NAH WENBIN, Senior Advisor, Reservoir Engineering

Wenbin is a Chartered Petroleum Engineer (CEng) with 15 years of upstream oil and gas experience. Wenbin is very familiar with most aspects of reservoir engineering and has particular expertise in areas of reservoir modelling & simulation. Wenbin has led numerous Reserves and Resource assessments, M&A technical due diligence studies, underground gas storage (USG) as well as multidisciplinary asset characterization studies. Wenbin also has complementary knowledge in Geoscience, holds an MBA and is also a CFA Charterholder.



NILA MURTI, Senior Advisor, Geology

Nila is an experienced petroleum geologist with 28 years of experience in the upstream oil and gas industry. Before joining GaffneyCline Nila worked for two exploration and production companies in Indonesia. She has worked extensively on reserves and resources assessment projects and 3D reservoir modelling. Nila has conducted many projects related with petroleum system analysis and exploration area prospectivity evaluations. She has also worked on merger and acquisitions due diligence projects and more recently in CCUS project.



DAVID JARRETT, Senior Advisor, Geoscience

David is a geoscientist with 16 years' industry experience in a particular expertise in geological modeling and reservoir characterization in support of reserves estimation, reservoir simulation, equity negotiation, and technical due diligence. His particular focus is East and West Africa and the Eastern Mediterranean. David has also expertise in Project Management and leadership across multiple projects.



PHILIP GIBBONS, Senior Advisor, Petrophysics

Phil has 20 years' experience working in a wide range of reservoir types from clastics to complex carbonates. Work includes detailed log analyses and full petrophysical evaluations as part of Reserves and Resources audits, technical merger and acquisition due diligence, CPR's and Unitisations projects.



RAND AL-OBAIDY MUSTAFA, Ph.D, Senior Advisor, Petroleum Engineering

Rand is a Petroleum Engineer with 17 years' oil and gas upstream industry worldwide experience but a particular focus on Egypt. Her expertise is in oil and gas field development, reserves and resource evaluation, technical due diligence, petroleum licensing round and promotion, and peer reviews and field development support. Rand is bilingual in English and Arabic.



THOMAS HANCOCK, Senior Advisor, Geoscience

Tom has 18 years of industry experience and specializing in geological & geophysical analyses to support a wide range of technical project types. Primary work includes technical due diligence, unitization and redetermination, CPRs, reserve & resource audit/assessment, field development and asset transactions (buy and sell side). Experience covers a wide range of project maturity from prospect delineation to late field life and enhanced recovery, across a wide range of geological provinces. Tom has experience in managing from small to large, multi-disciplinary technical projects.



CHAO LI, Senior Advisor, Reservoir Engineering

Chao has over 30 years of experience in geoscience and reservoir engineering, including integrated reservoir studies, well performance analysis, reserves audits and static/dynamic reservoir modeling. He has extensive experience in reserves/resources assessment, technical due diligence, and static/dynamic modeling of onshore fields (north and South America), deepwater fields/projects in Gulf of Mexico (US and Mexico), Brazil, Trinidad, offshore West Africa, and unconventional plays worldwide, in particular US, Canada and South America. Chao is a skilled user of Petrel, Eclipse, Petra, Jewel Suite, SMT, CMG, MBAL, PHDWin, and Fekete. Chao also has extensive experience providing static and dynamic modeling in support of CCS projects.



PRAMIT BASU, Global Lead CCUS

Pramit has 20 years of industry experience in India, UK, Germany and the US. Pramit specializes in CO₂ Storage safety & MMV (Monitoring, Measurement, and Verification) planning and leads technology innovation, strategy formulation, M&A and consulting business of carbon management in his current role. His has deep technical expertise in Geology, Geomechanics and E&P operations working in all the major basins across the globe. Pramit is active in reviewing publication, teaching courses, conducting workshops and participate in forums to shape the future of CCUS standards globally.



CHRIS BURNS, Global Lead, Geology & Geophysics

Chris has 20 years' industry experience in geoscience, team leader and project manager and included work in China, Algeria, Italy, Tunisia, Kuwait, West Africa, and UK / Danish North Sea assets, as well as due-diligence work for internal investment decisions. Key technical proficiencies are in seismic interpretation, static geological modelling, and unconventional reservoirs which include projects in Europe, North America and the Middle East. An experienced user of industry-standard interpretation software including Kingdom Suite; Petrel; RokDoc; Hampson-Russell suite; GeoFrame, Jewelsuite, and ArcGIS. His current roles include project delivery and quality assurance, including adherence to ISO standards.

He has acted as assistant instructor for geological field courses in Dorset and Utah and is a member of the MSc Advisory Board at the Department of Earth Sciences, Royal Holloway University of London.



CHRISTOPHER HARPER, Principal Advisor, Production Chemistry

Chris has 24 years' experience in the energy sector, including oil and gas, geothermal and CCS. He has developed, published and deployed numerous workflows and case studies across a broad range of topics, includes H₂S and CO₂ phase behaviour, downhole and surface material selection, corrosive metal loss and catastrophic failure analysis, reconciliation of fluid composition with source rock mineralogy, biogeochemical fluid rock interactions, inorganic and organic deposition and flow assurance, erosive metal loss and sand control failure analysis, formation damage diagnostics, shut in/static condition corrosion and cracking, biological and non-biological reservoir souring, core flood programme design for various applications, various field and laboratory analysis techniques, and injection water quality specification.



AYMAN SAMY, Principal Advisor, Production Technology

Ayman brings over 28 years' international experience in petroleum engineering with industry leading companies such as Amoco, BP, Lukoil JVs, Petro-Canada, Suncor Energy. Ayman holds BSc, MSc and PhD in petroleum engineering. Area of expertise includes but not limited to field development planning, well testing, production strategy, production enhancement, matrix stimulation, formation damage, artificial lift, sand control, water management, well performance modelling, surface network modelling, Integrated Asset Modelling, acidization, hydraulic fracturing, cutting re-injection (CRI), produced water re-injection (PWRI), waterflood, reservoir management, economic analysis, energy transition (geothermal and CCUS).



YAMAL ASKOUL, Principal Advisor, Reservoir Engineering

Yamal is reservoir engineer with more than twenty-two years of experience in the Energy sector. His technical expertise ranges from dynamic simulation, reservoir characterization, applied reservoir engineering, lower completion modelling (ICD/AICD), unconventional reservoir, and improved & enhanced oil recovery including CCS, EOR-CCS, CCUS, UGS and Geothermal. Also, he has experience in geomodelling, field development planning, uncertainty analysis, flooding schemes and water management.



PEDRO GAMBOA, Senior Advisor, Reservoir Engineering

Pedro has over 45 years in the oil industry, working for both Major E&P Companies as well as Service Companies. He started his career in 1979 as Well Logging Engineer for WELEX (Now HLS). He has worked across many disciplines from reservoir engineering, project planning and management, and technical support, and has worked in many different geographical areas. He is petroleum engineering team lead for Latin America.



Dr. TIM SALTER, Senior Advisor, Geology and Geological Modelling

A technically assured reservoir geologist with 27 years' hands-on experience across a variety of assets in the North Sea, Middle East and Australasia. Proven delivery of simulation suitable geomodels – underpinned by sedimentological training with specialist competencies in development-scale reservoir characterization across clastic, carbonate and unconventional reservoirs. Proven analytical skills and acknowledged as a key integrator of seismic, petrophysical and reservoir engineering datasets across multi-discipline teams. Consultancy experience working with clients to both project manage and deliver tailored FDP studies, individual reservoir models and other integrated reservoir evaluations. Proficient in the execution, including geosteering, of complex wells as both Operator and a Consultant. Experienced in Project Management.



SANTI RANDAZZO, Principal Advisor, Geophysics and Quantitative Interpretation

Geophysicist with 30 years' experience in the oil and gas industry. Geophysical advisor and team leader with extensive experience in fast-paced, demanding client environments. Analytical professional skilled in successfully navigating large projects at client locations through periods of accelerated growth. Collaborative communicator with the client's organization to drive successful project results that are on time and within budget.



Dr. EBRAHIM HEYDARI, Principal Advisor, Petrophysics

Ebrahim has over 24 years of experience in the oil and gas industry. His expertise spans a wide spectrum of exploration and development projects, encompassing both conventional (clastic and carbonates) and unconventional reservoirs. Ebrahim has made significant contributions to numerous successful exploration and development initiatives in world-class oil and gas blocks/fields across the Middle East and Europe, benefiting international investors and operators. Ebrahim holds a MSc in Sedimentology focused on Middle East reservoirs, and a Ph.D. in Petroleum Geology and Petrophysics.



DAVE COOKE, Principal Advisor, Well Completions

Dave has over 35+ years in the industry from early Geothermal Energy Research, incorporating multi discipline tasks and providing tremendous experience in a variety of fields, to later years where a specialized development of the completion engineering aspect from both equipment manufacturer and operator perspectives. Dave has deep experience in completion design / engineering, operations and stress analysis, and working in Oil & Gas E & P, Salt Cavern Gas Storage, Geothermal industries and CCS. Various papers submitted and accepted by SPE, SMRI, World Oil and BP's Global Completion and Drilling Conferences.



Dr. ABBAS KHAKSAR, Principal Advisor, Geomechanics

Abbas is an industry recognized expert with over 28 years of experience in petroleum geomechanics, sand production prediction & management, and has been involved in more than 300 studies worldwide on various geomechanical evaluations. He has developed and conducted industry short courses especially focusing on sanding evaluation and sand management. He actively provides interdisciplinary reservoir solutions and also involved with software & workflow development. He has over 100 technical publications and was a 2019-20 SPE Distinguished Lecturer on the topic of "Advanced Geomechanics Analysis for Sand Management Decisions".



Dr. AMERICO FERNANDEZ, Principal Advisor, Geomechanics

Americo has worked as 3D/4D geomechanics over 30 years leading numerous projects worldwide. He currently focuses on overseeing multi-disciplinary 3D/4D geomechanics projects, mentoring technical staffs, delivering training and peer reviewing. He also leads the development of finite element analysis procedures to evaluate the integrity of conformable liners for sand control (GeoFORM). In addition, he has strong background in experimental geophysics, rock mechanics, critical state soil mechanics and applied mathematics.



Dr. DAVID WIPRUT, Principal Advisor, Geomechanics

David has been working on geomechanics problems in the oil and gas industry over 30 years focusing on the state of stress, wellbore stability (conventional and underbalanced drilling), and fault leakage with extensive experience around the world. David oversees geomechanics training activities worldwide for Baker Hughes. David has designed and taught both public and private courses to thousands of industry professionals. He also advises on technical issues for consulting projects, and manages the geomechanics community of practice in addition to mentoring and assuring the competency of geomechanics professionals.



Dr. WILL PETTITT, Global Lead, Geothermal

Will has over 25 years of experience in geoscience and geoengineering consulting including geothermal, mining, oil & gas, civil engineering, and nuclear waste. Will is a thought leader on developing and deploying the use of Earth's heat and helps energy companies develop and execute their vision for taking geothermal energy forward. Will was Executive Director of Geothermal Rising, the largest nonprofit professional and trade association for geothermal energy worldwide, and previously led geomechanics and microseismic consulting, software, and research companies. Will publishes and speaks on a wide range of topics and participates in government and organizational committees.



Dr. COLLEEN BARTON, Principal Advisor, New Energy

Colleen holds a Ph.D in geophysics from Stanford University and has 45 years of experience in the industry. She co-founded GeoMechanics International (GMI) and is a principal advisor in the areas of geomechanics, fracture mechanics, reservoir permeability and dynamic simulation applied to geothermal and CCS reservoirs and has been instrumental in CCS monitoring design plan development.



MIKE REESE, Principal Advisor, Geomechanics

Mike is a multi-disciplinary geologist/engineer with over 40 years of vast operational expertise with oil & gas and service companies. His expertise include real-time geomechanics & drilling optimization, ECD management and wellbore stability operations, service development, compliance, training and risk management across the globe. He developed risk management processes utilized throughout Baker Hughes and is involved in global digitalization and automation initiatives. He also has wide range of experience in pore pressure and wellbore stability modelling using petrophysical, drilling and geophysical data across the globe along with extensive wellsite experience in GoM, Malaysia, Vietnam, Saudi Arabia, Ireland and Russia.



Dr. FENG GUI, APAC Lead, Petroleum Engineering

Feng has 20+ years experiences in energy industry specializing in geomechanics and integrated subsurface studies. Feng has been leading and involving in APAC assets studies including 1D/3D/4D geomechanical modelling, well bore stability, 1D/3D pore pressure prediction, sand production prediction, fault stability, fracture permeability, subsidence/compaction, and casing deformation etc. Feng has also deep experience in integrated subsurface studies for both conventional and unconventional fields, geothermal, CCUS and underground gas storage fields.



DANIEL WONG, Ph.D, Senior Consultant, Reservoir Engineering

Daniel has experience in CO₂ storage resource assessments per the SRMS and hydrocarbon resource assessments per the PRMS. Daniel has also been involved in numerous M&A projects. He holds a Ph.D in Petroleum Engineering from Heriot-Watt University, where his research was sponsored by Total. Prior to the Ph.D, his role as a Mechanical Design Engineer with broad exposure to Completion, M/LWD and Directional Drilling tools. Daniel is first author of multiple papers as well as a book chapter and is a listed inventor on several patents.



Dr. JAMAR BYNUM, Senior Advisor, Geology

Jamar is a geologist with over 12 years of experience in the energy industry, analysing carbonate, siliciclastic and mixed depositional systems across the North American Craton. She has served as a subject matter expert in depositional systems modelling, unconventional reservoirs, and core evaluation. Her industry experience ranges from basin scale modelling of petroleum systems to play scale facies analysis (using seismic, petrophysical and core data), to micro-scale pore typing / distribution analysis for evaluating reservoir quality. Her Ph.D. dissertation at Oklahoma State University: Tectonic and Eustatic Controls on Mixed Carbonate and Siliciclastic Reservoirs in the Low Carboniferous (Mississippian) System of the Mid-Continent, USA.



SATYA PERUMALLA, MENATI Lead, Geomechanics

Satya has over 25 years of technical & management expertise in the oil & gas industry. He has proven track record in leading strategic projects to support the sub-surface and engineering interests of global E&P organizations across the Middle East, Africa and India. He demonstrated expertise bridging the gap between geomechanics, geoscience and engineering to deliver integrated projects which address drilling, completion, exploration and reservoir management issues.



Dr. AHMADREZA YOUNESSI, Senior Advisor, Geomechanics

Ahmadreza is a Geomechanics Advisor and a 3D/4D Geomechanics Subject Matter Expert with 18 years of experience. He has been involved in numerous projects including 1D and 3D geomechanical modeling, wellbore stability analysis, near-real-time analysis, sand production prediction, sanding rate quantification, compaction and subsidence analysis, 4D geomechanical modeling and fault reactivation analysis mainly in Asia-Pacific region. He also actively contribute in technology and software development.



JOHANNES VOSSEN, KSA Lead, Geomechanics

Johannes has over 25 years of broad geomechanics experience, especially in the Middle East, Europe and Africa. His technical expertise covers hydraulic fracturing of conventional and unconventional resources, 1D/3D/4D anisotropic geomechanical modelling, analytical- and numerical solids production prediction, wellbore stability, underbalanced drilling and real-time geomechanics. He also played a key role in digital technology development and automation for geomechanics applications.



Dr. OLGA CARVAJAL, LATAM Lead, Consulting

Olga has over 15 years of experience in engineering consulting in the oil & gas sector in Latin America. She has been responsible for conducting and leading integrated geomechanics projects involving petrophysics, geology and geophysics, providing solutions to de-risk exploration, drilling, and production projects. More recently, Olga has been focused on the execution of carbon sequestration projects where geomechanical solutions are also critical for integrity assurance.



Dr. JIANYONG PEI, Senior Advisor, Geomechanics

Jianyong is specialized in geomechanics with diverse background in rock mechanics, unconventional, hydraulic fracturing, optic fiber measurements, numerical modelling, core analysis, digital rock, and research and development. Among the various researches performed, he developed patented technologies to analyze LWD tool measurements for automated wellbore stability analysis. He currently focuses on 3D/4D geomechanical modelling and simulation for CCUS and offshore development.



KEVIN MCCARTHY, Senior Advisor, Geothermal

Kevin is Geothermal Advisor and his experience in geothermal spans 20 years where he first conducted his thesis studies on the geochemistry of shallow hydrothermal systems, with a focus on subsurface characterization in support of expanding the global contribution of geothermal energy. Implementing skills and knowledge learned over several years in exploration with major oil and gas operators, he has focused on de-risking geothermal prospects and developing technical strategies for practical implementation.



CHRISTOVIK SIMATUPANG, Senior Advisor, Geothermal

Christovik has over 18 years of working experience in various geothermal systems in both exploration and operation stages. His exposure to different heat extraction technologies has also contributed to the enhancement of thorough knowledge and understanding on the full complete cycle of geothermal utilization. He also has been involved in ESG (Environmental, Social, Governance) projects for instance air dispersion modelling of carbon and H₂S emission.



GRÉGORY RÉGIS, Lead Engineer, Permanent Monitoring

Jamar is a geologist with over 12 years of experience in the energy industry, analysing carbonate, siliciclastic and mixed depositional systems across the North American Craton. She has served as a subject matter expert in depositional systems modelling, unconventional reservoirs, and core evaluation. Her industry experience ranges from basin scale modelling of petroleum systems to play scale facies analysis (using seismic, petrophysical and core data), to micro-scale pore typing / distribution analysis for evaluating reservoir quality. Her Ph.D. dissertation at Oklahoma State University: Tectonic and Eustatic Controls on Mixed Carbonate and Siliciclastic Reservoirs in the Low Carboniferous (Mississippian) System of the Mid-Continent, USA.



JEREMY BARNAVOL, Senior Engineer, Permanent Monitoring

Satya has over 25 years of technical & management expertise in the oil & gas industry. He has proven track record in leading strategic projects to support the sub-surface and engineering interests of global E&P organizations across the Middle East, Africa and India. He demonstrated expertise bridging the gap between geomechanics, geoscience and engineering to deliver integrated projects which address drilling, completion, exploration and reservoir management issues.



NGOC-TUYEN CAO, R&D Expert, Permanent Monitoring

David is a geomechanics expert with vast experience in drilling operations including pre-drill pore pressure/wellbore stability planning, real-time wellbore stability surveillance/drilling operation optimization, kick prevention, and post-mortem analysis/ end of the well reporting. As keynote speaker for Nigerian Association of Petroleum Explorationists (NAPE) technical meetings, he has mentored several professionals from zero knowledge of geomechanics to proficiency.



DAVID ODOFIN, SSA Lead, Geomechanics

David is a geomechanics expert with vast experience in drilling operations including pre-drill pore pressure/wellbore stability planning, real-time wellbore stability surveillance/drilling operation optimization, kick prevention, and post-mortem analysis/end of the well reporting. As keynote speaker for Nigerian Association of Petroleum Explorationists (NAPE) technical meetings, he has mentored several professionals from zero knowledge of geomechanics to proficiency.



PETER ADAM, Principal Advisor, Reservoir Engineering

Peter has over 30 years of worldwide experience including several international service and operating companies. He is an experienced reservoir engineering manager who has held a number of senior leadership roles, with significant experience of working in Indonesia.

Peter also has experience of acquisitions and divestments, estimation of reserves and resources and CCS projects for various operators. He is active within the SPE and the Indonesian Petroleum Association (IPA) and is a past Chairman of technical committees to organize major conferences, and the recipient of SPE Regional and International awards.



Dr. TONY ZHANG, Principal Advisor, Head of Carbon Management & Energy Transition, Asia Pacific

Dr. Tony Zhang's expertise includes carbon capture technology, commercialization, techno-economic feasibility, energy system analysis, and emission reduction technology. Tony has worked on various carbon capture and gas separations projects with major oil and gas companies and power companies. He was a founder of an industry-funded emission reduction technology company which had successfully developed and demonstrated emission reduction technology. He has several patents and published academic papers.



WILL ASKHAM, Senior Advisor, Geoscience

Will has over 15 years of industry experience and project manager on a broad variety of technical projects which have included Reserve and Resource estimation, exploration support, seismic interpretation, static modelling, field/block/basin reviews, technical due diligence, M&A work, and takeover defense. Experienced in a wide range of basin settings and depositional environments mainly in Europe and Asia Pacific.

