

## ***CURRICULUM VITAE***



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### **Education:**

2020 : Engineer (Eng.) or Insinyur (Ir) degree from Geological  
 Engineering Profession Subprogram, Institut Teknologi Bandung  
 (ITB)  
 2017 : Awarded an Executive Professional Engineer (*Insinyur  
 Profesional Utama*, IPU) by The Institution of Engineers  
 Indonesia (PII: *Persatuan Insinyur Indonesia*)  
 2011 : Awarded a professorship in petroleum geochemistry field  
 1990 : Ph.D. in petroleum geochemistry, Curtin University of  
 Technology, Perth, Western Australia  
 1979 : Sarjana (bachelor) degree in geology, Institut Teknologi  
 Bandung (ITB) (Bandung Institute of Technology)

### **Work affiliation/assignment:**

2023 – present : Member of the University Senate, also as a member in  
 Commission I (academic affairs) at Uper  
 2023 – present : Chairman of the Faculty Senate of the Faculty of  
 Exploration and Production Technology and Faculty of  
 Science and Computer Science, Uper  
 2023 – present : Dean of the Faculty of Exploration and Production  
 Technology and Dean of the Faculty of Science and  
 Computer Science at Universitas Pertamina (Uper)  
 2022 – present : Vice Chairman II, the Earth Technology and Energy  
 Expertise Group, The Institution of Engineers Indonesia  
 (PII)  
 2019 – 2024 : Chairman of the Faculty Senate of FITB (Faculty of Earth  
 Sciences and Technology) ITB  
 2019 – 2023 : Member of the Academic Senate, also as a member in  
 Commission I (academic affairs) at ITB

- 2018 – 2023 : Chairman of the Petrology, Volcanology, and Geochemistry Research Group at the FITB-ITB
- 2017 – present : Adjunct lecturer at the Pattimura University (Unpatti) Ambon and University of Pertamina (Uper) Jakarta
- 2017 – 2019 : Adjunct lecturer at the Institut Teknologi Sumatera (ITERA) Bandar Lampung
- 2017 – present : Boards member of *Bulletin of Geology*, FITB-ITB
- 2017 – 2019 : Boards of reviewer in the journal published by Geological Survey of Indonesia, Geological Agency, Ministry of Energy and Mineral Resources
- 2015 – present : Boards member of the *Indonesian Journal on Geoscience (IJOG)* (Ministry of Energy and Mineral Resources)
- 2015 – 2022 : Chairman of Profession Certification, Earth Sciences and Energy Group, The Institution of Engineers Indonesia (PII)
- 2015 – 2020 : Member of Boards of Ethic Code, The Institution of Engineers Indonesia (PII)
- 2011 – 2015 : Dean of the Faculty of Earth Sciences and Technology (FITB), Institut Teknologi Bandung (ITB)
- 2008 – 2023 : Lecturer of Management and Mineral Economics for undergraduate student at ITB
- 2008 – 2010 : Executive Editor of the ITB Journal of Science and Technology
- 2007 – 2010 : Head of the Intellectual Property Management Office of ITB
- 2006 – 2010 : Lecturer in the joint degree Masters Program between ITB and UKM (Malaysia)
- 2006 – 2007 : Chairman of Geology and Paleontology Research Group at the Faculty of Earth Sciences and Technology, ITB
- 2004 – 2010 : Financial Director of PT Gada Energi (a LAPI, ITB affiliated company), Bandung
- 2002 – 2004 : Vice Dean for Finance and General Administration, Faculty of Earth Sciences and Mineral Technology, ITB
- 2000 – present : Consulting geochemist, PT Geoservices (Ltd.) Jakarta
- 1999 – 2024 : Lecturer of Petroleum System for postgraduate students at ITB
- 1999 – 2002 : Head of Policy and Innovation Development Division, Intellectual Property Management Office, ITB
- 1990 – 2024 : Lecturer of Geochemistry of Source Rocks and Geochemistry of Biomarkers for postgraduate students at ITB
- 1990 – 1997 : Consulting geochemist, PT Geoservices (Ltd.) Bandung
- 1990 – 1993 : Secretary of the Department of Geology, ITB.
- 1980 – 2024 : Lecturer of Petroleum Geochemistry (undergraduate) at ITB
- 1980 – 1984 : Consulting geologist, PT Geoservices (Ltd.) Bandung
- 1979 – 1980 : Geologist with PT Rio Tinto (Ltd.) Indonesia

**Publications:**

- Pires, J., **Subroto, E.A.**, and Kesumajana, A.H.P. (2025) Inversion geochemistry, a way to interpret the criteria of source rock of an oil sample: Case study of oil samples from Bobonaro area, Maliana Basin, Timor Leste. *Journal of Geoscience, Engineering, Environment, and Technology*, 10 (04-2), 38-42. DOI: 10.25299/jgeet.2025.10.1.1.24362
- Priyanto, B., **Subroto, E.A.**, Kesumajana, A.H.P., Susanto, V., and Suryanto, A.D. (2024) Geochemical characteristics and origin of crude oils from Sunda and Asri Basins, Indonesia. *Indonesian Journal on Geoscience*, 11(3), 437-454. DOI: 10.17014/ijog.11.3.437-454.
- Penggalih, S., **Subroto, E.A.**, and Susanto, V. (2024) Lesson learn of geochemistry of hydrocarbon gases and CO<sub>2</sub> in Mesozoic petroleum system of Papua New Guinea: Implication for the fold belt play concept in eastern Papua, Indonesia. *Bulletin of Geology*, **8/1**, DOI: 10.5614/bull.geol.2024.8.1.5, 1314-1321.
- Pires, J., **Subroto, E.A.**, and Kesumajana, H.P.K. (2024) *Studi geokimia organik batuan sedimen berumur Trias di Cekungan Maliana, Timor-Leste: Tinjauan awal kemungkinan sebagai batuan induk* (Organic geochemistry study of Triassic sedimentary rocks in Maliana Basin: Preliminary review of possible source rocks), *Lembaran Publikasi Minyak dan Gas Bumi* (Lemigas journal), DOI: 10.29017/LPMGB.58.1.1614, 26-36
- Hartono, B.M., **Subroto, E.A.**, Kesumajana, A.H.P.K., Andrianto, R., Malvinas, G., and Wahyudiono, J. (2023) Geochemistry of carbonate-derived oils in the Seram Basin, eastern Indonesia: A new hydrocarbon generation, migration, and preservation model for exploration in fold-thrust belts. *Journal of Asian Earth Sciences*, **250**, 1-18.
- Hartono, B.M., **Subroto, E.A.**, Kesumajana, A.H.P.K., Andrianto, R., Wahyudiono, J., Malvinas, G., and Priyanto, B. (2022) The significant meaning of biodegradation to the petroleum system of the Seram Basin, eastern Indonesia: evaluation on the basis of physio-chemical composition variation of Seram oils. *IOP Conf. Series: Earth and Environmental Science*, **1047**, 1-11. DOI:10.1088/1755-1315/1047/1/012032.
- van Gorsel, J.T. (Han) and **Subroto, E.A.** (2022) Abiogenic gas seepage from serpentinite at Tanjung Api, Tomini Bay, East Sulawesi. *Berita Sedimentologi*, **48(1)**, 67-78. DOI: 10.51853/bsed.2022.48.1.390.
- Hartono, B.M., Zajuli, H., and **Subroto, E.A.** (2021) Lacustrine Paleo-Environment Evolution of Eocene Kelesa Formation Inferred from Sedimentology and Organic Geochemistry. *Proceedings Joint Convention Bandung (JCB) 2021*.
- Hartono, B.M., **Subroto, E.A.**, Kesumajana, A.H.P., Andrianto, R., Malvinas, G., Wahyudiono, J., and Priyanto, B. (2021) New Interpretation of the Nature and Origin of Carbonate-Derived Oil in Seram Basin, Eastern Indonesia. *Proceedings of the 30<sup>th</sup> International Meeting on Organic Geochemistry (IMOG 2021)*. Online conference.
- Nugroho, R.T., Yomandha, G.H., Hartono, B.M., Wahyudiono, J., and **Subroto, E.A.** (2020) Source Rock and Oil Geochemistry in North Seram Basin based on Surficial Data, *Proceedings the 49<sup>th</sup> the Association of Indonesian Geologists Annual Convention & Exhibition, Lombok, December 15-18<sup>th</sup> 2020*, e-proceedings paper ID No. PIT49IAGI-S-021-05.
- Hartono, B.M., Zajuli, M.H.H., **Subroto, E.A.**, and Pangestu, A.B. (2020) Biomarker Characteristic of Kelesa Oil Shale as Evidence of the Source of Organic Matter, Depositional Environment, and Maturity Interpretation, *Proceedings Indonesian*

- Petroleum Association Forty Fourth Annual Convention & Exhibition, September 2020, paper ID No. IPA20-SG-316.*
- Zajuli, M.H.H., **Subroto, E.A.**, and Susanto, V. (2019) Characterization of Oil Shale in the Indragiri Hulu Regency, Indonesia, Based on Organic Geochemistry and Petrography. *IOP Conference Series: Earth and Environmental Sciences*, 360, Article number 012008.
- Wibisono, S.A. and **Subroto, E.A.** (2018) Hubungan peringkat batubara terhadap kandungan gas metana batubara Formasi Warukin bagian tengah pada sumur BSCBM-01, Kabupaten Paser, Provinsi Kalimantan Timur (Correlation between coal rank and coal bed methane content of the middle Warukin Formation at the BSCBM-01 well, Paser Regency, East Kalimantan Province), *Bulletin of Geology*, **2 (1)**, 149-162.
- Subroto, E.A.** and Sapiie, B. (2017) Application of surface geochemistry technique in identifying hydrocarbon occurrence in Bintuni Basin, Papua Island, Indonesia. *Proceedings Joint Convention Malang HAGI-IAGI-IAFMI-IATMI*, paper code JCM2017-0964 (Paper as soft file version in CD).
- Wibowo, S.S. and **Subroto, E.A.** (2017) Studi geokimia dan pemodelan kematangan batuan induk Formasi Talangakar pada Blok Tungkai, Cekungan Sumatera Selatan (Geochemical study and source rock maturity modeling of Talangakar Formation in Tungkai Block, South Sumatra Basin), *Bulletin of Geology*, **1 (1)**, 54-64.
- Junita, T.M., Adani, N., **Subroto, E.A.**, Sutanto, H., and Satyana, A.H. (2016) Mesozoic-aged oils in the northeast Java Basin, Indonesia: Evidence from triaromatic dinosteroid. *Proceedings Indonesian Petroleum Association Fortieth Annual Convention & Exhibition, IPA16-663-G* (Paper as soft file version in CD).
- Pradana, E.S. and **Subroto, E.A.** (2015) Fasies batuan induk Formasi Brown Shale serta korelasi geokimia batuan induk dan minyak bumi di Subcekungan R dan S, Selat Malaka, Cekungan Sumatra Tengah (Source facies of the Brown Shale Formation and source rock to oil correlation studies in the R and S Sub-basins, Malaka Strait, Central Sumatra Basin, *Buletin Geologi*, 42 (2), 89-102.
- Subroto, E.A.** (2015) The role of coaly materials as oil and gas source rocks (conventional and unconventional) in the Kutai Basin, Indonesia. (Note: invited as keynote speaker) *Abstracts of the 32<sup>nd</sup> Annual Meeting of the Society for Organic Petrology: 2015, Volume 32 Yogyakarta, Java, Indonesia, 20<sup>th</sup> – 27<sup>th</sup> September 2015; ISSN 1060-7250* (Abstract as soft file version in CD).
- Indrasatwika, V. and **Subroto, E.A.** (2015) Potensi hidrokarbon berdasarkan analisis geokimia dan pemodelan satu dimensi pada area Ladang Kembang, Cekungan Sumatra Selatan (Hydrocarbon potential study based on geochemical and 1-D modeling analyses in Ladang Kembang area, South Sumatra Basin), *Buletin Geologi*, 42 (1), 5-20.
- Syaifudin, M., **Subroto, E.A.**, Noeradi, D., and Kesumajana, A.H.P.K. (2015) Characterization and correlation study of source rocks and oils in Kuang area, South Sumatra Basin: The potential of Lemat Formation as hydrocarbon source rocks. *Proceedings Indonesian Petroleum Association Thirty-Ninth Annual Convention & Exhibition, IPA15-G-034* (Paper as soft file version in CD).
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- Syaifudin, M., **Subroto, E.A.**, Noeradi, D., and Kesumajana, A.H.P.K. (2014b) Correlation Study of Source Rock and Oil in Limau Graben, South Sumatera Basin: Source Rock

- and Oil Characterization and Potency of Lemat Formation as Hydrocarbon Source Rocks, *Proceedings of the 1st International Conference on Energy and 7th Indonesia – Malaysia Geoheritage Conference* Yogyakarta, 20-21 November 2014, 16-25.
- Lanadito, A.P., Safrizal, dan **Subroto, E.A.** (2014) Karakterisasi dan korelasi batuan induk – minyak bumi dari sumur-sumur di Subcekungan Ciputat, Cekungan Jawa Barat Utara (Characterization and correlation between source rocks and crude oils from several wells in the Ciputat Subbasin, Northwest Java Basin, *Buletin Geologi*, 41 (3), 165-178.
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- Bahesti, F., **Subroto, E.A.**, Manaf, N.A., and Sadirsan, W. (2014) Integrated basin analysis and geomechanics study of Lower Baong Shale for preliminary shale gas prospectivity in the North Sumatra Basin. *Proceedings Indonesian Petroleum Association Thirty-Eighth Annual Convention & Exhibition, IPA14-G-014* (Paper as soft file version in CD).
- Larasati, D., **Subroto, E.A.**, Saputra, H.N., and Syam, B. (2013) Geochemical Characterization and Oil-Source Rock Correlation in Jabung Block, Jambi Sub-Basin, South Sumatra Basin. *Proceedings of HAGI-IAGI Joint Convention, Medan* (Paper as soft file version in CD).
- Larasati, D., **Subroto, E.A.**, Saputra, H.N., and Syam, B. (2013) Source Rock Distribution at Jabung Block, Jambi Sub-Basin, South Sumatra Basin Based on Well Correlation. *Proceedings of HAGI-IAGI Joint Convention, Medan* (Paper as soft file version in CD).
- Subroto, E.A.** (2013) Coaly materials as the source of oil and gas in Indonesia: Kutai Basin, East Kalimantan, case study. *A paper presented in the third World Petrocoal Congress in New Delhi, India 15-17 February 2013*.
- Praja, I.T.A., **Subroto, E.A.**, Hehakaya, D.E., Amanda, R., and Noeradi, D. (2010) *Studi geokimia batuan induk dan korelasinya dengan sampel minyak bumi di Cekungan Ombilin* (Geochemical study of source rocks and their correlation with crude oils in Ombilin Basin), *Proceedings of the 39th IAGI Annual Convention and Exhibition*. Paper as soft file version in CD.
- Subroto, E.A.**, Hermanto, E., Kamtono, P., and Kamtono, K. (2009) Source Rock Geochemical Study in the Southwestern Java, A Potential Hydrocarbon Basin in Indonesia. *Proceedings 2009 AAPG International Conference and Exhibition, Rio de Janeiro, Brazil*. Extended abstract in CD.
- Pireno, G.E., **Subroto, E.A.**, Noeradi, D., and Djumhana, N. (2009) Potential of Pre-Kais Formation as a source rock in the Salawati Basin, Bird Head West papua, Indonesia. *Proceedings 2009 AAPG International Conference and Exhibition, Rio de Janeiro, Brazil*. Abstract in CD.
- Subroto, E.A.**, Noeradi, D., and Afriatno, B.Y. (2009) Geochemical identification of favorable basins for biogenic gas exploration in Indonesia. *Proceedings Indonesian Petroleum Assoc. 31<sup>st</sup> Annual Convention and Exhibition*. Soft file version in CD.
- Subroto, E.A.** and Noeradi, D. (2009) Geochemical view of petroleum system in Seram Island, eastern Indonesia, an area in the northern part of the Australian continental margin. *Bulletin of the Tethys Geological Society, Cairo*, Vol. 4 (March 2009), 29-36.

- Noeradi, D. and **Subroto, E.A.** (2009) Petroleum system model related to Tethys evolution in the eastern Indonesia region. *Proceedings of the First International Symposium on the Petroleum and Geological Resources in the Tethys Realm* at Cairo (Egypt), 17-20 March 2009.
- Subroto, E.A.**, Ibrahim, A., Hermanto, E., and Noeradi, D. (2008d) Contribution of Paleogene and Neogene sediments to the petroleum system in the Banyumas Sub-basin, southern Central Java, Indonesia. *Proceedings AAPG (American Association of Petroleum Geologists) International Conference in Cape Town (South Africa)*, 27-29 November 2008.
- Wiloso, D. and **Subroto, E.A.** (2008) Confirmation of the Paleogene source rocks in the Northeast Java Basin, Indonesia, based on petroleum geochemistry. *Proceedings AAPG (American Association of Petroleum Geologists) International Conference in Cape Town (South Africa)*, 27-29 November 2008.
- Subroto, E.A.**, Afriatno, B.Y., Noeradi, D., and Sumintadireja, P. (2008a) Prediction of the biogenic gas occurrences in Indonesia based on studies in East Java and Tomori (Central Sulawesi). *JTM (Journal of Mineral Technology)*, XIV No. 3, 115-124.
- Subroto, E.A.** and Noeradi, D. (2008) Petroleum system of the Paleozoic and Mesozoic formation intervals in the northern Arafura Sea, Papua, Indonesia (Abstract). *Proceedings GEO 2008, 8<sup>th</sup> Middle East Geosciences Conference and Exhibition*, Bahrain, 3-5 March, 2008. Soft file version in CD.
- Noeradi, D., **Subroto, E.A.**, Priyono, A., Wahono, H.E., and Hermanto, E. (2007) Evolution of carbonate reservoir in South Makassar Basin, Indonesia, and hydrocarbon prospectivity assessment within the area. *Proceedings AAPG International Conference and Exhibition, Athens, Greece, November 2007*. Soft file version in CD.
- Subroto, E.A.**, Noeradi, D., Priyono, A., Wahono, H.E., Hermanto, E., and Syaifuddin, M. (2007) Preliminary study on Paleogene and Neogene source rocks in the frontier offshore South Makassar Basin, Indonesia. In: *Water-Rock Interaction* (eds. Bullen and Wang), *Proceedings 12<sup>th</sup> International Symposium on Water-Rock Interaction Kunming, China*. pp. 905-908.
- Subroto, E.A.**, Noeradi, D., Priyono, A., Wahono, H.E., Hermanto, E., Praptisih, and Santoso, K. (2007) The Paleogene Basin within the Kendeng Zone, Central Java Basin, and implications to hydrocarbon prospectivity. *Proceedings Indonesian Petroleum Assoc. 31<sup>st</sup> Annual Convention and Exhibition*, 289-302.
- Santosa, K. and **Subroto, E.A.** (2006) Revealing undetected geological structure within Ngimbang Formation in the Ngimbang-1 well, Northeast Java Basin, Indonesia, based on vitrinite reflectance data. *Proceedings PIT IAGI, Pekanbaru, November 2006*. Soft file version in CD.
- Subroto, E.A.**, Wahono, H.E., Hermanto, E., Noeradi, D., and Zaim, Y. (2006) Reevaluation of the petroleum potential in Central Java Province, Indonesia: innovative approach using geochemical inversion and modelling. *Proceedings AAPG International Conference and Exhibition, Perth, November 2006*. Soft file version in CD.
- Noeradi, D., **Subroto, E.A.**, Wahono, H.E., Hermanto, E., and Zaim, Y. (2006) Basin evolution and hydrocarbon potential of Majalengka-Bumiayu Transpression Basin, Java Island, Indonesia. *Proceedings AAPG International Conference, Perth, November 2006*. Soft file version in CD.
- Subroto, E.A.**, Bachtiar, A., and Istadi, B. (2006) Source rock characterisation in the Kutai Basin, East Kalimantan, Indonesia, based on biomarkers. *Proceedings Jakarta 2006*

*International Geosciences Conference and Exhibition, Agustus 2006*. Soft file version in CD.

- Subroto, E.A.**, Muritno, B.P., Sukowitono, Noeradi, D., and Djuhaeni (2005) Petroleum geochemistry study in a sequence stratigraphic framework in the Simenggaris Block, Tarakan Basin, East Kalimantan, Indonesia. *Proceedings Indonesian Petroleum Assoc. 30<sup>th</sup> Annual Convention & Exhibition*, 422-432.
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- Subroto, E.A.**, Priadi, B., and Yulian, B. (2004) Study on gas samples collected from Tanjung Api and Tomori area, Sulawesi: abiogenic, biogenic, or thermogenic? *Buletin Geologi* Vol. 36, No. 3, 90-103.
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- Subroto, E.A.** (2004) Initial biomarkers study on some Recent sediments collected from eastern Java Sea, offshore Indonesia (Abstract). *Proceedings 5<sup>th</sup> International Conference on Asian Marine Geology, Bangkok-Thailand*. pp. 198.
- Subroto, E.A.**, Syaifudin, M., Koesoemadinata, R.P. and Noeradi, D. (2000) Concern about the use of vitrinite reflectance as maturity parameter in some Indonesian sediments. *Proceedings Southeast Asian Coal Geology Conference, Bandung 19-20 June 2000*, pp. 93-100.
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- Subroto, E.A.**, Bachtiar, A., and Bagiyo, H. (1997) Calcareous sediments as petroleum source rocks in the Kutai Basin, East Kalimantan: a preliminary study (Abstract). *Abstracts of the Conference on Tectonics, Stratigraphy & Petroleum Systems of Borneo, Brunei Darussalam*, pp. 38.
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*Poster presented in the National Earth Scientists Congress (KAIKNAS) 1995 in Yogyakarta.*

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- Subroto, E.A.**, Alexander, R., and Kagi, R.I. (1992) Application of 30-norhopanes as carbonate biomarkers to oil-source correlation in the North Sumatra Basin, Indonesia (Abstract). *Abstracts of the 29<sup>th</sup> International Geological Congress, Kyoto, Japan*, Vol. 3, pp. 834.
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- Ong, H.L., Alibazah, P., and **Subroto, E.A.** (1984) Field sampling and analytical procedures as used in geothermal operation in Indonesia. *Proceedings the 3<sup>rd</sup> Asean Geothermal Energy Seminar, Bandung*, pp. 1-7.
- Subroto, E.A.** and Ong, H.L. (1984) Pyrolysis, a novel and rapid technique in geochemical source rock characterisation (in Indonesian). *Proceedings of Himpunan Kimia Indonesia (HKI; Association of Indonesian Chemists) Conference, Yogyakarta*. Abstract No. 68.

### **Research and Work Experience:**

- 2025            Geochemical study of Genting area for Genting Oil and ITB.
- 2024-2025    G&G geological potential study of natural hydrogen in the East Sulawesi Ophiolite. for Pertamina (PHE) and Universitas Pertamina.
- 2013-2024    A member of research group focused on CCS (carbon capture and storage) for ITB-JICA-Pertamina
- 2023            Study of unconventional oil and gas in Jambi area for Pertamina and ITB.
- 2023            General geology study of Yamdena area (Papua Island) for Pertamina and ITB.
- 2021-2022    *Studi reprocessing seismik dan pematangan lead & prospect di area East Natuna* (Study on seismic reprocessing and lead & prospect enhancement) for PT Pertamina Hulu Energi

- 2020-2021 *Studi eksplorasi batuan induk dan evaluasi migrasi hidrokarbon daerah Tomori, Sulawesi Tengah* (Source rock exploration study and hydrocarbon migration evaluation in the Tomori area, Central Sulawesi) for JOB Pertamina-Tomori.
- 2013-pres. Member of CCS (*carbon capture and storage*) research group, a research on an effort to restore CO<sub>2</sub> to subsurface. Cooperation among ITB-JICA-Pertamina
- 2019-2021 *Studi integrasi geologi dan geofisika vulkanik Jatibarang untuk rencana pengembangan lapangan* (G&G integration study on Jatibarang volcanics for field development) for PT Pertamina EP
- Jasa studi 3D modeling terintegrasi* (Integrated study of 3D basin modelling in Ketaling and Merang Deeps to oil prospect maturation) for PT Pertamina Hulu Energi (PHE) Jambi Merang
- Provision of G&G study basin modeling Pekawai Block for PT Saka Energi
- 2018-2019 *Analisis laboratorium sumur ENC-2* (Laboratory analyses for ENC-2 well) for PT Energi Mineral Langgeng (EML)
- 2017-2018 Self-management for provision of South Sesulu basin modelling study for Saka Energi.
- Geochemical analyses on twenty-eight sediment (outcrop) samples, three oil, and four gas samples collected from Papua Island for Eni Indonesia.
- 2015-2016 Study on microfacies potential carbonate source rocks and its faulting impacts in Salawati Basin, Papua for Pertamina UTC (Upstream Technology Center).
- Fieldwork and geochemical analysis and study for Timor area for Eni Indonesia OTS-1 Ltd.
- Basin modeling study services on northeast Madura Island for Techwin Energy Northeast Madura Ltd.
- 2015 Three-D petroleum system modelling of West Timor area for Eni West Timor Ltd.
- 2014 Geology and geochemistry of the Pertamina (PHE) East Java Basin area for Pertamina (PHE), Ltd.
- Fracture play studies of the BSP (Bumi Siak Pusako, Ltd.) operation area, Riau for BSP, Ltd.
- 2013 Wiriagar Deep Paleocene Compartmentalization Study for BP Indonesia.
- Geochemical modeling and migration path study in CNOOC Madura Limited block for Husky-CNOOC Madura Ltd.
- 2012-2013 Study on petroleum system of the fore-arc basins for SKKMigas.
- Petroleum system study in the field area of PT Bunga Mas, South Sumatra for PT Bunga Mas (second part).
- 2012 Petroleum system study in the field area of PT Bunga Mas, South Sumatra for PT Bunga Mas (first part).
- 2011-2012 Geochemical study in the northern part of Central Java and West Java for Pertamina EP.

- 2010-2011 Genetic characterization and habitat of natural gases in Central Sumatra Basin for Chevron Pacific Indonesia.
- Oil to source rock correlation study in the Ogan-Komering area for JOB Pertamina-Talisman (Ogan Komering) Ltd.
- Integrated petroleum system study on Kodeco area in western Madura Island for Kodeco Energy Co. Ltd.
- Geochemical study on Soka, Lagan, Matra, and Iliran high regions, South Sumatra Basin for PT Medco Energi South Sumatra (Ltd.).
- A geochemical and modeling studies on East Java Basin for SPE Petroleum Ltd.
- 2010 A geochemical evaluation on some sediment collected from Majalengka (West Java) for Pan Orient Ltd.
- A geochemical evaluation on Bayah Formation sediments collected from DDH-1 well of southwest Java for Lundin and Department of Geology ITB.
- 2009-2010 G&G Survey on Tanjung area II Block, North Barito Basin, Central-East Kalimantan for PT Pertamina EP.
- 2009 A geochemical evaluation on some sediments (Piniya, Kopai, and Tipuma Formations) collected from Papua Island for BP.
- Source rock study on Musi Block, South Sumatra Basin, South Sumatra for PT Pertamina EP.
- Geochemical evaluation on the "A" block, North Sumatra Basin, a project for PT Medco Energi.
- Joint evaluation for CBM project in Barito and Tapin for PT Karya Inti Energi.
- 2008-2009 Near surface geochemistry in Bentu area for Kalila (Bentu) Ltd.
- Near surface geochemistry in Desabaru area for Kalila (Korinci Baru) Ltd.
- Geology, geophysics, and geochemical studies on Pagardewa field, South Sumatra for PT Pertamina EP.
- Geochemical evaluation of oil and gas samples from Jabung block, South Sumatra, Indonesia for PetroChina International and PT Geoservices.
- 2008 Geochemical review and modelling on the East Java Basin for Kangean EMP (Ltd.).
- Joint Evaluation of CBM Concession Block Sangatta Area, East Borneo for Pertamina-Ephindo (Ltd.).
- 2007-2008 Geochemical review on the Northeast Java Basin for PT MEDCO Energi (Ltd.).
- Geochemical analysis of the Pasangkayu (Sulawesi) 2007 onshore geological fieldwork for Marathon Oil Company.
- 2007 Geochemical evaluation of the Matindok Block, Central Sulawesi for PT Pertamina EP (Ltd.).
- Evaluation of the petroleum system of southern part of Papua. A joint study between PT Chevron Pacific Indonesia (Ltd.) and PT LAPI ITB (Ltd.).

- Study on the development of charging and reserve facilities systems for the Indonesian oil strategic reserve for the Indonesian Directorate General of Oil and Gas
- Geochemical evaluation on crude oil and sediment samples from Buton Island for Japex.
- Evaluation of the petroleum system of the Pre-Kais formations around Klamono, Papua for PT Pertamina EP (Ltd.).
- Geochemistry of two crude oil samples from Air Serdang oil field for JOB Pertamina-Talisman (OK).
- Joint evaluation study on CBM (coal bed methane) at the overlapping area of Medco-Ephindo, South Sumatra for Medco-Ephindo (Ltds.).
- 2006-2007 Petroleum system study of the Northeast Java Basin and Makassar Strait area for the Executive Agency for Upstream Oil and Gas Business (BPMIGAS).
- 2006 Petroleum system study of the Sadang-Sageri area, South Makassar Strait Basin for Petronas Carigali.
- Petroleum system study of the Jambi Block, South Sumatra for Petronas Carigali.
- 2005-2006 Petroleum system study in the south-western part of Northeast Java Basin and the western part of Northwest Java Basin, for the Executive Agency for Upstream Oil and Gas Business (BPMIGAS).
- Petroleum system study in the Jabung area, Sumatra Island, for CNOOC.
- 2005 Quality controller on the investigation of hydrocarbon pollutant in the Seribu Islands area, for the Executive Agency for Upstream Oil and Gas Business (BPMIGAS).
- Geochemistry of three crude oil samples from Air Serdang for JOB Pertamina-Talisman (OK).
- 2004 Source rock evaluation using combined FMM and conventional organic petrological analyses for a suite of samples from CQ-1, Rangsang trough, Central Sumatra Basin, Indonesia, for Kondur Petroleum.
- Geochemical analyses of cuttings and SWC samples from wells: Baru-3, Baru-6, Korinci Utara-1, Segat-2, Segat-4, Seng-1, Terusan-1, Central Sumatra Basin, Indonesia, for PT Kalila Bentu and Korinci Baru.
- Hydrocarbon potential study in Ogan Komering Block, for Joint Operation Body Pertamina-Talisman (OK) Ltd.
- Integrated geology and geochemical studies in the Simenggaris area, Kalimantan, for JOB Pertamina-Medco Simenggaris Pty. Ltd.
- 2003 Modelling of biogenic gas potential in the East Java Basin and its application to other areas in Indonesia, for the Executive Agency for Upstream Oil and Gas Business (BPMIGAS).
- G&G exploration study for determining criteria of new field, for the Executive Agency for Upstream Oil and Gas Business (BPMIGAS).

Laboratory analyses on rock and fluid hydrocarbon samples collected from Ketaling, Sungai Gelam, and Kenali Asam areas (Jambi), for Pertamina Central Sumatra.

Study on regional geology and geochemistry based on 2D and 3D seismic data for calculating reserves and potential sources of the Donggi, Maleo, and Balantang structures, for Pertamina.

Laboratory analysis services on samples collected from four exploration wells in Matindok Block, Central Sulawesi, for Pertamina.

2002-2003 Hydrocarbon potential studies of sedimentary basins in Indonesia, for Pertamina.

2002 Geochemical survey on source rocks and oil-gas seepages of the Madura area (Bangkalan-southern Pamekasan), for the Indonesian Directorate General for Oil and Gas.

2001-2002 Petroleum geochemical studies of the Senoro-2 and Senoro-2 ST wells, Toili area, Central Sulawesi, for PT Exspan Nusantara (Ltd.)

2000 Petroleum geochemical studies of the Biduk-1 and Biduk Baru-1 wells, Block II PSC, N.W. Natuna Sea, for Conoco Indonesia Inc. Ltd.

1999 Integrated geochemical, geological and geophysical study on hydrocarbon generation and migration in Cintamani Sub-basin, Ogan-Komering Block, South Sumatra Basin, for Joint Operation Body Pertamina - Talisman (OK) Ltd.

Instructor of a short (5 days) course entitled "Geochemistry in Petroleum Exploration and Basin Evaluation," for DPKK Migas program, Yogyakarta.

1997-1999 Research on vitrinite reflectance (VR) suppression on source rocks in the Central Sumatra Basin and Kutai Basin (East Kalimantan) and the effort to construct a VR suppression model, funded by University Research for Graduate Education (URGE) Project, Directorate General of Higher Education, Department of Education and Cultural.

1998 Instructor of a short (5 days) course entitled "Reservoir Geochemistry: The Use of Reservoir Fluid Geochemistry in Studies of Reservoir Continuity," for IWPL- IAGI program, Jakarta.

1997-1998 Research on identification of 'oleanoids', common substances found in coaly source rocks and crude oils in Indonesia and their use in oil exploration, funded by the Asahi Glass Foundation.

1997 Geological investigations in onshore portions of the Sibolga Basin, northwest Sumatra, for Caltex Pacific Indonesia – ITB.

Characterisation of source rocks and gases from the Tunggul Maung-1 and Wanakersa-1 wells, northwest Java, Indonesia, for Pertamina and PT Geoservices.

1996 Gas chromatography and gas chromatography-mass spectrometry analyses for two extracted crude oils from the Ngurit-1 and Muya-1 wells and a coal sample from seismic shothole SP 262.5, for Permintraccer Petroleum Ltd. and PT Geoservices.

- 1995–1996 Research on structure and stratigraphic developments in the Ombilin Basin, West Sumatra, for Caltex Pacific Indonesia and ITB.
- 1995 Geochemical analysis of the Patas-1 and Ngurit-1 wells, for Permintracer Petroleum Ltd. and PT Geoservices.
- Geochemical analysis of the Sumai-1 and Cenako-1 wells, Teso area onshore Sumatra, for JOB Pertamina Bow Valley (Teso) and PT Geoservices.
- 1994-1995 Study of the underground problem of the KRN-1 exploration well, for Pertamina Unit III and ITB.
- 1994 Source typing and correlation between source rocks and crude oils in the Kutai basin, East Kalimantan, for Vico Indonesia.
- Geochemical study for oil samples from Badak and Nilam fields, for Vico Indonesia.
- Geological and geochemical evaluation of the Merauke area, Irian Jaya, for Pertamina and PT Geoservices.
- 1993 Geological and geochemical evaluation of the Gorontalo Basin, North Sulawesi, for Pertamina and PT Geoservices.
- Instructor of a short (5 days) course entitled “The Application of Biomarkers in Solving the Exploration Problems,” for IWPL-IAGI program, Bandung.
- 1992 Geochemical study of the Jambi Sub-basin, South Sumatra, for Pertamina Unit II and PT Geoservices.
- 1991-1992 Geochemical study of the South Palembang Sub-basin, South Sumatra, for Pertamina and PT Geoservices.
- 1991 Instructor of a short (5 days) course entitled “The Use of Petroleum Geochemistry in Petroleum Exploration,” for IWPL-IAGI program, Bandung.
- 1990–1991 Field geology study (including petroleum geochemistry) of Rantau – Aru and Langkat/Medan, North Sumatra Basin, for Pertamina Unit I and ITB.
- 1985–1990 Biomarker distribution studies on carbonate type depositional environment with particular fields: Iraq, Seram, and North Sumatra Basins.
- 1983–1984 Geochemical sampling (including Radon sampling) for geothermal exploration at Gunung Salak, for Union Geothermal Indonesia and PT Geoservices.
- 1982–1983 Study on water supply for proposed transmigration sites at Pamenang and Bangko, Jambi, for the Department of Public Work, Directorate General of Cipta Karya and ITB.
- 1982 Geology, primary tin mineralisation and geochemistry of Gunung Gantan, Jebus, Bangka, for PT Tambang Timah (Indonesian Tin Mining Company).
- Study on water supply for proposed transmigration sites at Bingin Teluk, Pematang Panggang, and Klingi, South Sumatra, for the Department of Public Work, Directorate General of Cipta Karya – ITB.
- 1981 Seismicity pattern at the television relay site Gunung Brengik, Madura (East Java), for Departemen Penerangan (Department of Information) – ITB.

- 1980–1982 Monitoring of environmental pollution due to geothermal wells at Kamojang and Darajat (West Java) and Dieng (Central Java), for Pertamina and PT Geoservices.
- 1980 Geology and reconnaissance geochemistry of Aceh and surroundings, northern Sumatra, for PT Rio Tinto Indonesia.
- 1979 Geology and reconnaissance geochemistry around Arut, Pembuang, and Lamandau Rivers, Central Kalimantan, for PT Rio Tinto Indonesia.  
Geology and reconnaissance geochemistry around Kelinjau River, East Kalimantan, for PT Rio Tinto Indonesia.
- 1977–1978 Geology and sulphide mineralisation at Gunung Pandan, Cirotan, Sukabumi, West Java, for Pusat Pengembangan Teknologi Mineral (PPTM; Mineral Technology Development Centre).

#### **Courses/Trainings/Workshops:**

- 2013 CCS Training Course on Geological Storage Selection & Characterisation, CCOP, Denpasar-Bali.  
Plate Tectonics: short course and workshop, ITB, Bandung.
- 2012 Workshop on shale gas: “Shale gas as alternative energy in the future.” Geological Agency of Indonesia, Jakarta.  
Seminar/Workshop on CCS opportunities in the CCOP region. CCOP and Petrad. Denpasar-Bali.  
Deep offshore forum. Ministry of Energy and Mineral Resources and Total E&P Indonesia. Jakarta.
- 2011 International workshop on editorial board of geoscience journals in East and Southeast Asia. Geological Agency of Indonesia and CCOP. Bandung.  
International workshop on space observation techniques for monitoring global Earth dynamics. ITB, Bandung.  
Workshop on oil and gas road map exploration. Ministry of Energy and Mineral Resources, Jakarta.
- 2005 Practical investment appraisal and business division analysis in petroleum exploration and production. Indonesian Petroleum Association (IPA), Denpasar-Bali.  
Understanding the Indonesian Upstream Oil and Gas Industry. Indonesian Petroleum Association (IPA), Jakarta.
- 2002 Thinking Curriculum, ITB, Bandung
- 1999 Advanced Intellectual Property Rights, University of Technology, Sydney (UTS). Australia.  
English for Academic Purposes. The British Institute (TBI), Jakarta.
- 1998 Detached inversion: A new structural style applied to the Kutai Basin, Indonesian Petroleum Association (IPA), Bandung.

- 1997 Training for the Candidates of Textbook Translator. Directorate of Higher Education, Department of Education, Cisarua, Bogor.
- 1996 Prospect and play assessment, Indonesian Petroleum Association (IPA), Yogyakarta.  
Sequence stratigraphy of the Central Sumatra Basin, IPA, Yogyakarta.  
Karst systems: From prospect to reservoir, IPA, Jakarta
- 1994 Thermal modeling of petroleum generation, ITB-University of Tulsa, Bandung.  
Geochemistry in petroleum exploration and basin evolution, IWPL-IAGI, Yogyakarta.
- 1993 Application of geochemistry in petroleum exploration, IPA, Yogyakarta.  
Exploration risk analysis, IWPL-IAGI, Cirebon.  
Petroleum geochemistry for exploration geologists and geochemists, IPA, Jakarta.
- 1992 Application of organic geochemistry in petroleum exploration, BP-Research Centre-IPA, Bandung.
- 1991 Basin modelling course, PT Geoservices and IFP/Beicip, Bandung.
- 1990 Organic geochemistry – Evolving concept, PT Geoservices-Keiraville Konsultants Pty. Ltd., Bandung.
- 1985 Summer session courses on coal geology, University of Wollongong, Australia.
- 1984 Training course on integrated geochemical analysis, LGPN-LIPI, Bandung.
- 1983 Training course on organic laboratory procedures, Robertson Research, Llandudno, North Wales, United Kingdom.
- 1982 Petroleum generation and occurrence for exploration geologists, Oil and Gas Consultants International Inc., Jakarta.
- 1981 Training course on organic geochemistry laboratory procedures, Total Laboratory, Bordeaux, France.  
Basic log interpretation program, Schlumberger, Jakarta.
- 1980 Organic geochemistry in exploration course, Texaco-Bellaire Research Laboratories, Rumbai, Riau.  
Exploration for carbonate reservoirs, Oil and Gas Consultants International Inc., Jakarta.