

February 2019

**Alain-Yves HUC**

France

Date of birth 12<sup>th</sup> September 1947

ph: +33 1 47 49 62 74

cell phone: + 6 21 07 15 70

## ***DOMAINS OF EXPERTISE***

Petroleum Geochemistry  
Geochemistry of Petroleum system  
Source rocks  
Reservoir geochemistry  
Production geochemistry  
Geochemistry of unconventional hydrocarbon systems  
Heavy Crude Oils  
Introduction to molecular markers (Biomarkers)  
Geological history of the carbon cycle (including atmospheric CO<sub>2</sub>)

## ***CURRENT POSTS***

- Associate Professor, IsTep, Sorbonne Univ. Paris
- Associate Professor IFP-School.
- Lecturer at IFP Training
- Independent Consultant

## ***EDUCATION***

**1978 PhD**

Doctorate in Sciences from the University of Strasbourg (Thèse d'état)

## **PROFESSIONAL CAREER (1971-2013)**

### **PHD STUDIES**

**1971-1973**  
**ENGINEER'S DOCTORAL  
THESIS (PHD)** Holder of MRT research grant at Pedology Centre, Nancy (CNRS).  
(Thesis supervisor P. Duchaufour). Thèse Docteur-Ingénieur

**1974-1977**  
**DOCTORAL THESIS (PHD)** ENSPM doctoral research fellowship at Institut Français du Pétrole  
and Louis Pasteur University of Strasbourg (Thesis supervisors: G.  
Ourisson and B. Tissot). Thèse d'état

### **CNRS, France**

**1977-1978** CNRS researcher at Laboratory of Applied Geology of the University  
of Orleans, France, (Research director: J. Trichet). Attaché de  
Recherche

### **WOODS HOLE OCEANOGRAPHIC INSTITUTION, USA**

**1978-1980** Post-doctoral researcher at Woods Hole Oceanographic Institution,  
Woods Hole, Mass, USA (Research director: J.M. Hunt), Mellon  
Fellowship.

### **CNRS, France**

**1980-1981** CNRS researcher at Laboratory of Applied Geology of the University  
of Orleans, France (Research director: J. Trichet). Chargé de  
Recherche

### **IFP (INSTITUT FRANÇAIS DU PÉTROLE), FRANCE**

**1981-1983** Research Engineer in Department of Applied Physico-chemistry

**1983-1984** Research Engineer in Geochemistry Department  
(Research director: R. Pelet)

**1984-1991** Project manager "*Distribution and Heterogeneity of Source Rocks*"  
(Research director: B. Durand)

**1988-2000** Deputy Director of the Geology-Geochemistry Division  
(Successive Directors: B. Durand, J. Burrus, and D. Guérillot)  
Head of Geochemistry Department

**1991...** Associate Professor, Ecole Nationale Supérieure du Pétrole et des  
Moteurs (IFP School)

**1992-1996** Project manager "*Reservoir Geochemistry and heavy oil studies*"

**1997-1998** Project manager "*Geological control of Reservoir Fluids*"

- 1999-2000** Project manager “*Geochemistry of Petroleum Systems*”
- 2000** Project manager “*Geochemical control of Reservoir Fluids*”
- 2000-2008** Associate Research Director at IFP  
IFP Professor
- 2000-2004** Director of Exploration Centre at IFP School

### ***IFP ENERGIES NOUVELLES, FRANCE***

- 2004-2013** Deputy Director Geology-Geochemistry-Geophysics Department  
IFPEN
- 2009-2013** IFPEN Scientific Senior Advisor

### ***ISTEP, SORBONNE UNIVERSITY, PARIS***

- 2013-** Associate Professor at IsTep, Sorbonne University, Paris, France

### ***INDEPENDENT CONSULTANT***

- 2013-** Independent Consultant, Rueil-Malmaison, France

## ***SCIENTIFIC AND TECHNICAL WORK***

**Citations: 4808**  
**h Index: 37**  
**i10 Index: 85**  
**RG score: 40.56**

- **158** Published articles in journals and books.
- **113** Presentations at conferences.
- **7** Special volumes on topics covering Petroleum system, source rocks and reservoir geochemistry (Scientific Editor or author)
- **3** Patents.

## ***HONOURS AND AWARDS***

- Mellon foundation Post-Doctoral Fellowship, Woods Hole Oceanographic Institution (1978-1980),
- Best poster: Gordon Research Conference on Fuel Science, Tilton N.H., U.S.A (1982)
- Student Tour Lecturer EAGE (European Association of Geoscientists and Engineers) 2005-2006
- Middle East Student Tour Lecturer EAGE (European Association of Geoscientists and Engineers) 2007
- Special Issue of "Journal of Petroleum Geoscience and Engineering": *Reservoir Geochemistry and application*, dedicated to Dr Huc (september 2007)
- EAGE Honourable Recognition Award, 2008
- AAPG (American Association of Petroleum Geologists) Distinguished Service Award 2012
- AAPG (American Association of Petroleum Geologists) Charles Taylor Fellow 2015

## **SELECTED PARTICIPATION IN ACTIVITIES OF THE SCIENTIFIC COMMUNITY**

- Member of the Board of the European Association of Organic Geochemistry, EAGE (1989-1997)
- Associate Editor of the *American Association of Petroleum Geologists Bulletin* (1999-2001, 2008-2010, 2010-2012 2012-2014)
- Chief Editor of the *Journal of Petroleum Science and Engineering* (1996-2003)
- Associate Editor of the journal: *Organic Geochemistry* (1986-1993)
- President of the FFG (French Federation of Geology) (2007-2010)
- Past President of the FFG (French Federation of Geology) (2011-2012)
- European Science Foundation, Peer Reviewer (2008-2019)
- Member of the Advisory group of *Edinburgh Consortium on Subsurface Science and Engineering (ECOSSE)*: Heriot-Watt University and the University of Edinburgh, the British Geological Survey, and Scottish Universities Environmental Research Centre (2008-2010)
- Member of the review panel for the Helmholtz-Programme "Geosystem – The Changing Earth", Germany (2013)
- Member or past member of AAPG, EAGE, EAOG, SGF, FFG and ALAGO
- Secretary and treasurer of the founding European Region Board of the *American Association of Petroleum Geologists* (2000-2002)
- Vice-president of the European Region Board of the *American Association of Petroleum Geologists* (2004)

### **Organisation of conferences:**

- Member of the Conference Organisation Committee: Coal - Formation Occurrence and Related Properties, Orleans, France, 12-15 Sept 1989.
- Member of Scientific Committee of the 15<sup>th</sup> International Congress of Organic Geochemistry, Manchester (UK), 16-20 Sept. 1991.
- Co-organizer with Dr N. Schneidermann (Chevron) of the AAPG/IFP International Hedberg Research Conference: "Paleogeography, Paleoclimate and Source Rocks", 7-10 July 1992, Paris, France (awarded distinction "AAPG Best of Hedberg Conference").
- Member of "Programme Advisory Committee" of the Dahlem Conference on the "Role of non-living organic matter in the Earth's carbon cycle", Berlin, 12-17 Sept 1993,
- Member of Scientific Committee for the 17<sup>th</sup> International Congress on Organic Geochemistry, San Sebastian (Spain), Sept. 1995.
- Member of the Organisation Committee for the 8<sup>th</sup> Annual Goldschmidt Conference, Toulouse, France, 30 Aug.-3 Sept. 1998.
- Organizer of conference session "From primary production to formation of hydrocarbons" at the RAST 2000 (French annual Earth sciences meeting).

- Member of Scientific Committee of the SPE Applied Technology Workshop: "Economic impact of reservoir geochemistry on petroleum exploration and production", Milan, 7-10 May 2000.
- Member of Congress Scientific Committee: ALAGO meeting, Merida, Mexico, 5-9 Dec 2004
- Member of the Conference Organizing Committee: AAPG International Conference, Paris, 9-11 Sept 2005
- Scientific Correspondent for the International Conference on "Deep Saline Aquifers for Geological Storage of CO<sub>2</sub> and Energy, IFP, Rueil-Malmaison, France, May 27-29<sup>th</sup>, 2009
- Convenor of a conference session "Storage and protection of organic matter in soils, sediments and rocks" at GeoReg 2011, October 24<sup>th</sup>- 26<sup>th</sup> Lille, France.
- Convenor of a conference session "Unconventional hydrocarbons" ALAGO meeting, Santa Marta, Colombia, 12-16 november 2012
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## **TEACHING ACTIVITY**

**2005-2006 EAGE Student Lecture Tour** (Geology of CO<sub>2</sub>, natural sequestration of CO<sub>2</sub>). Imperial College (London), U. Manchester (UK), U. Leeds (UK), U. Newcastle (UK), U. Edinburgh (UK), U. Karlsruhe (Germany), U. Delft (The Netherlands), U. Leuven (Belgium), U. Bergen (Norway), U. Helsinki (Finland), U. Barcelona (Spain), U. Madrid (Spain), U. Roma (Italy), U. Milan (Italy), IGAL (France), U. Krakow (Pologne), U. Prague (Tchecoslovakia), U. Vienna (Austria), U. Budapest (Hungaria), U. Bucarest (U. Romania)

**2007-2008 EAGE Student Lecture Tour** (Geological history of CO<sub>2</sub>, Atmospheric change and natural sequestration).

U. Tehran (Iran), U. Al Qaboos/Muscat (Oman), U. King Fahd/Dhahran (Saudi Arabia), U. Al Ain (United Arab Emirates), Petroleum Institute / Abu Dhabi (United Arab Emirates), U. Sanaa (Yemen), U. Tehran, (Iran)

**- University of Orleans:**

- Science and Technology Masters and Post-graduate Diploma 1977-1982
- Third-year course of studies at E.S.E.M. 1983-1990
- Advanced Studies/Postgraduate Diploma (Univ Orleans-Univ Orsay) 1983-2002

**- IFP School:**

- Lecturer since 1983
- Associate Professor since 1990
- Advanced Studies/Postgraduate Diploma: Quantitative methods in Geosciences (1995-2005)
- MSc Studies/Postgraduate Diploma: Petroleum Geosciences (1983-2009)
- MSc Geology Major since 1990
- Msc Geophysic major since 1990
- Msc Reservoir Geoscience and Engeneering since 1999

**- Ecole Nationale Supérieure de Géologie, Nancy:**

- Lecturer in 1990

**- University of Bordeaux III:**

- Lecturer in Applied Geology and ENSEGID (Water, Environment, Geoengineering, Imaging and Development) of the Science and Technology Masters programme since 1995
- **Ecole Nationale Supérieure des Mines, Paris:**
  - Lecturer 1998-2002
- **Ecole Normale Supérieure, Paris:**
  - Lecturer since 2003
  - Invited lecturer "Séminaires généraux" : 2005
- **Institut Géologique Albert de Laparrent / IGAL / Lassalle Beauvais:**
  - Lecturer since 2001
- **Seminars on Petroleum Systems, Geochemistry and Geology of Unconventional Resources:**
  - O.A.P.E.C. 1983
  - E.N.S.P.M.-FI. since 1990
  - Scientific specialist in charge of Applied Geochemistry seminars at
  - ENSPM-FI / IFP Training since 1999
  - EC ENERGY CENTRE, Tyumen, Russia 1995
  - PETROCONSULTANT, Geneva 1996
  - ELF-ANGOLA, Luanda, Angola 1996
  - Gaz de France 2001
  - Cartagena, Colombia 2002 (seminar: biodegradation of petroleum)
  - ENSPM-FI, Luanda, Angola 2002, 2003
  - Institut Algérien du Pétrole 2004, 2005, 2006, 2009
  - Kuwait University, 2005
  - KOC, 2005
  - TOTAL Angola, Luanda 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015
  - TOTAL Pau, 2008
  - PDVSA Caracas, Vénézuéla 2007 (x 3), 2008, 2009, 2010, 2011
  - PETRONAS, Ipoh Univ, Malaysia 2007, 2008
  - IFP School: Unconventional Hydrocarbons 2009-2018
  - GDF-Suez 2012
  - General Electric, Florence, Italy, Unconventional Hydrocarbons 2013, 2014
  - NIOC September 2013
  - PETRONAS Kuala Lumpur, 2015, 2016
  - KPC, Kuwait, geology of Shale Resources ,2017

## **EDITING OF BOOKS**

**- Scientific editor:**

*"Deposition of Organic Facies"* - AAPG Studies in Geology n° 50, 1990 (Ed. A.Y. Huc).

**- Scientific co-editor:**

*"Origin and significance of the organic matter in evaporites: application to the Mulhouse Basin"* - Organic Geochemistry n° 20, 8, 1993 (Eds. A.Y. Huc and J.S. Sinninghe Damsté).

**- Scientific editor:**

*"Paleogeography, Paleoclimate and Source Rocks"* - AAPG Studies in Geology n° 40, 1995 (Ed. A.Y. Huc).

**- Scientific co-editor:**

"Reservoir Geochemistry"- Organic Geochemistry n° 24, 12, 1996 (Eds. A.Y. Huc and D. Jarvie).

**- Member of the Editorial Advisory Board:**

"Encyclopedia of Geochemistry" - *Encyclopedia of Earth sciences series*, 1999 (Eds C.P. Marshall and R.W. Fairbridge), Kluwer Academic Publishers, 712 p.

**- Scientific editor and author:**

"Heavy Crude Oils, from geology to upgrading: an overview" 2011, (Ed A.Y. Huc)  
Edition Technip 450 p

**- Author:**

"Geochemistry of Fossil Fuels, from conventional to unconventional systems", 2013  
Edition Technip 250 p,

## **PUBLICATIONS**

### **PUBLICATIONS IN SCIENTIFIC JOURNALS AND BOOKS**

- 1 - **HUC A.Y., DURAND B., 1973**  
Etude des acides humiques et de l'humine de sédiments récents considérés comme précurseurs des kérogènes.  
In: *Advances in Organic Geochemistry*, 1973. Tissot B., Bienner F. (eds) Paris : Technip, 1974, p. 53-72.
- 2 - **HUC A.Y., DURAND B., JACQUIN F., 1974**  
Caractérisation des acides humiques de sédiments récents et comparaison avec leurs homologues terrestres.  
*Bull. E.N.S.A.I.A. Nancy*, 16, p. 59-75.
- 3 - KLINGEBIEL A., BOLTENHAGUEN C., CARATINI C., DEBYSER Y., DELTEILS J.R., DURAND B., ETIENNE J., **HUC A.Y.**, LATOUCHE C., MILLEPIEDS P., PARA M., PUJOL C., SAUVAN P., SOMMER F., **1975**  
Etude stratigraphique, sédimentologique et géochimique de sédiments carottés dans le Golfe de Guinée au cours de la campagne Bénin 1971.  
*Bull. Inst. Géol. Bassin Aquitaine*, 17, p. 101-232.
- 4 - **HUC A.Y.**, ROUCACHE J., BERNON M., CAILLET G., DA SILVA M., **1976**  
Application de la chromatographie sur couche mince à l'étude quantitative des extraits de roches et des huiles.  
*Rev. Inst. Fr. Pétr.*, 31, p. 67-98.
- 5 - CALAS G., **HUC A.Y.**, PAJOT B., **1976**  
Utilisation de la spectrométrie infrarouge pour l'étude des inclusions fluides des minéraux : intérêts et limites.  
*Bull. Soc. Fr. Minéral, Cristallogr.* 99, p. 153-161.
- 6 - **HUC A.Y., 1976**  
Mise en évidence de provinces géochimiques dans les schistes bitumineux du Toarcien de l'Est du Bassin de Paris. Etude de la fraction organique soluble.  
*Rev. Inst. Fr. Pétr.* 31, p. 933-953.

- 7 - **HUC A.Y., DURAND B., 1977**  
Occurrence and significance of humic acids in ancient sediments.  
*Fuel.*, 56, p. 73-80.
- 8 - **HUC A.Y., DURAND B., 1977**  
Contribution de la Géochimie Organique à une esquisse paléoécologique des schistes bitumineux du Toarcien de l'Est du Bassin de Paris. Etude de la matière organique insoluble (kérogènes).  
*Rev. Inst. Fr. Pétr.*, 32, p. 703-718.
- 9 - **HUC A.Y., DURAND B., MONIN J.C., 1978**  
Humic compounds and kerogens in core from Black Sea Sediments Legs 42 B, Sites 379 A, B and 380 A.  
In: *Initial Reports of the Deep-Sea Drilling Project*, Vol. 42 B, Part 2. Ross D.A., Neprochnov Y.P., eds Washington D.C. (U.S. Government Printing Office), p. 737-748.
- 10 - **HUC A.Y., 1978**  
Géochimie Organique des schistes bitumineux du Toarcien du Bassin de Paris.  
*Thèse d'Etat*, Université de Strasbourg - Technip Paris, p. 138
- 11 - **HUC A.Y., 1980**  
Origin and formation of organic matter in recent sediments and its relation to kerogen.  
In: *Kerogen Insoluble Organic matter from sedimentary rocks*.  
Durand B., ed., Technip, Paris, p. 445-472.
- 12 - HUNT J.M., **HUC A.Y., 1980**  
Petroleum source-rock evaluation by thermal distillation and pyrolysis (Abstract)  
*Book of abstracts, A.A.P.G.-S.E.P.M.-E.M.D.* Annual convention. p. 70 Denver, Colorado, June 8-11, 1980.
- 13 - **HUC A.Y., HUNT J.M., 1980**  
Generation and migration of hydrocarbons in offshore South Texas Gulf Coast Sediments.  
*Geochemica et Cosmochimica Acta* 44, p. 1081-1089.
- 14 - HUNT J.M., WHELAN J.K., **HUC A.Y., 1980**  
Genesis of petroleum hydrocarbons in marine sediments.  
*Science*, 209, p. 403-404
- 15 - WHELAN J.K., HUNT J.M., **HUC A.Y., 1980**  
Applications of thermal distillation - pyrolysis to petroleum source rocks studies and marine pollution.  
*Journal of Analytical and Applied Pyrolysis*, 2, p. 79-96.
- 16 - HUNT J.M., **HUC A.Y., WHELAN J.K., 1980**  
Generation of light hydrocarbons in sedimentary rocks.  
*Nature*, 288, p. 688-690.
- 17 - **HUC A.Y., ROUCACHE J., 1981**  
Quantitative thin layer chromatography of sedimentary organic matter.  
*Analytical Chemistry*, 53, p. 914-916.
- 18 - MONIN J.C., DURAND B., VANDENBROUCKE M., **HUC A.Y., 1981**  
Simulation expérimentale de l'évolution des kérogènes sous l'action de l'enfouissement.  
*Advances in Organic Geochemistry*. Newcastle upon Tyne 1979. Eds. A.G. Douglas, J.R. Maxwell, p. 517-530.
- 19 - **HUC A.Y., HUNT J.M., WHELAN J.K., 1981**



- The organic matter of a Gulf Coast Well studied by a thermal analysis-gas chromatography technique.  
*Journal of Geochemical Exploration*, 15, p. 671-681.
- 20 - MEYER P.A., **HUC A.Y.**, BRASSEL S.C., **1981**  
 Organic Matter Patterns in South Atlantic Sediments deposited since the late Miocene beneath the Benguela Upwelling System.  
*Advances in Organic Geochemistry*, Bergen 1981 - Eds Bjørøy et al. p. 465-470.
- 21 - MEYER P.A., BRASSEL S.C., HAY W.H., **HUC A.Y.** and Leg 75 Scientific Party, **1981**  
 Cretaceous Black Shales in Angola Basin of South Atlantic Ocean (Abstract).  
*A.A.P.G. Bull.*, 65/5, p. 958.
- 22 - HAY W.W., BARRON E.J., BOYCE, R.E., BRASSELL S., DEAN, W.E. **HUC A.Y.**, KEATING B.H., Mc NULTY B.H., MEYER P.A., NAHORA M., SCHALLREUTER R.E., STEINMETZ J.C. STOW D., STRADNER H., **1982**  
 Sedimentation and accumulation of organic carbon in the Angola basin And Walvis ridge : Preliminary results of Deep Sea Drilling Project Leg 75.  
*Geological Society of America Bulletin*, 93, 1038-1050.
- 23 - MEYER P.A., BRASSEL S.C., **HUC A.Y.**, **1983**  
 Organic Geochemistry of sediments recovered by D.S.P.D./I.P.O.D. Leg 75 from under the Benguela current. In: *Coastal upwelling, Its sediments records*, Part B : sedimentary records of ancient coastal upwelling. J. Thiede, E. Suess, eds.  
 Nato Conferences. Series 4 Marine Sciences 10 b. p. 453-466 plenum press New-York 1983.
- 24 - MEYER P.A., BRASSEL S.C., **HUC A.Y.**, **1984**  
 Geochemistry of organic carbon in South Atlantic sediments from Deep Sea Drilling Project Leg 75. In: *Initial reports of the Deep Sea Drilling Project Vol 75, n° 2*, p. 967-981. U.S. Government Printing Office, Washington 1984.
- 25 - DEROO G., HERBIN J.P., **HUC A.Y.**, **1984**  
 Organic Geochemistry of cretaceous black shales from deep sea drilling project site 530 Leg 75 Eastern South Atlantic.  
 In : *Initial reports of the Deep Sea Drilling Project*, Vol 75, n° 2, p. 983-999.
- 26 - MONTHIOUX M., **HUC A.Y.**, DURAND B., **1984**  
 Artificial maturation of kerogen in a pressure controlled sealed system (Abstract)  
*Book of Abstracts, 188th A.C.S. National Meeting*, Philadelphia, Aug. 26-31, 1984.
- 27 - DESBENE P.L., LAMBERT D., RICARDIN J.J. -, BASSELIER R., BOULET R., **HUC A.Y.**, **1984**  
 Preparative fractionation of petroleum heavy ends by ion exchange chromatography.  
*Analytical Chemistry*, vol. n° 2, Feb. 1984, p. 313-315.
- 28 - SCHMITTER J.M., IGNIATIADIS I., DORBON M., ARPINO P., GUIOCHON G., TOULHOAT H., **HUC A.Y.**, **1984**  
 Identification of nitrogen bases in a coker gas-oil and influence of catalytic hydrotreatment in their composition.  
*Fuel* Vol. 63 n° 4, April 1984, p. 565-570.
- 29 - DORBON M., IGNIATIADIS I., SCHMITTER J.M., ARPINO P., GUIOCHON G., TOULHOAT H., **HUC A.Y.**, **1984**  
 Identification of carbazoles and benzocarbazoles in a coker gas-oil and influence of catalytic hydrotreatment on their distributions.  
*Fuel* Vol. 63 n° 4, April 1984, p. 565-570.
- 30 - **HUC A.Y.**, BEHAR F., ROUSSEL J.C., **1984**  
 Geochemical variety of asphaltenes from crude oils.  
 In : *Caractérisation des huiles lourdes et des résidus pétroliers*, Symposium international Lyon 25-27 Juin 1984, p. 99-103, Editions Technip Paris 1984.

- 31 - WHELAN J.K., HUNT J.M., JASPER J., **HUC A.Y.**, 1984  
Migration of C1-C8 hydrocarbons in marine sediments.  
In : *Advances in Organic Geochemistry 1983* Proceedings of the 11th International Meeting on Organic Geochemistry, The Hague, Sept.12-16, 1983, P.A. Schenck et al. eds., p. 683-694 ; Pergamon Press, Oxford 1984.
- 32 - **HUC A.Y.**, IRWIN H., SCHOELL M., 1985  
Organic matter quality changes in an Upper Jurassic Shale Sequence from the Viking Graben.  
In: *Petroleum Geochemistry in Exploration of the Norwegian Shelf*, Norwegian Petroleum Society (B.H. Thomas et al. eds), p. 179-184. Graham and Trotman Ltd.
- 33 - BROSSE E., **HUC A.Y.**, 1986  
Organic parameters as indicators of thermal evolution in the Viking Graben.  
*Proceedings of the 1st I.F.P. Exploration Research Conference*. Carcans France, June 3-7, 1985. - Eds. J. Burrus, p. 517-530, Editions Technip, Paris.
- 34 - **HUC A.Y.**, DURAND B., ROUCACHE J., VANDENBROUCKE M., PITTION J.L., 1986  
Comparison of three series of organic matter of continental origin.  
In: *Advances in Organic Geochemistry*. Org. Geochem. 10, p. 65-72.
- 35 - **HUC A. Y.**, MONIN J.C., DURAND B., BEHAR F., 1986  
Comparison of the hydrocarbons migration in coals and clays from a deltaic sequence, Mahakam delta, Indonesia (Abstract),  
*Book of abstracts, 192nd A.C.S. National meeting*, Anaheim, Sept 7-12, 1986.
- 36 - SODERQUIST A., BURTON D.J., PUGMIRE R.J., BEELER A.J., GRANT D.M., DURAND B., **HUC A.Y.**, 1987  
Evidence of segmental motion in the aliphatic region in coals using dipolar dephasing N.M.R.  
*Energy and Fuel* 1, 1, p. 50-55.
- 37 - **HUC A.Y.**, VANDENBROUCKE M., BESSEREAU G., LE FOURNIER J., 1987  
Distribution of organic facies in recent sediments of northern part of lake Tanganyika.  
*Abstract. A.A.P.G. Bull.* 71/5, p. 569.
- 38 - HERBIN J.P., **HUC A.Y.**, MELIERES F., VANDENBROUCKE M., 1987  
Caractérisation géochimique de la matière organique des sédiments du lac Bogoria. In Tiercelin et al. : "Le Demi-Graben de Baringo-Bogoria, Rift Gregory, Kenya. 30 000 ans d'histoire hydrologique et sédimentaire".  
*Bull. des Centres de Recherche Exploration-Production Elf-Aquitaine*, 11, n° 2, p. 249-540.
- 39 - DURAND B., **HUC A.Y.**, OUDIN J.L., 1987  
Oil saturation and primary migration : observations in shales and coals from the kerbau wells, Mahakam delta, Indonesia.  
*Proceedings of the 3rd I.F.P. Exploration research conference Carcans France*. June 15-17, 1987. Ed. B. DOLIGEZ, Editions Technip, France.
- 40 - **HUC A.Y.**, 1988  
Sedimentology of organic matter.  
*Dahlem Workshop Report on "Humic substances and their role in the environment"*. Eds F.H. Frimmel and R.F. Christman. *John Wiley and Sons Ltd*, Chichester 1988, p. 215-243.
- 41 - HORTH H., FRIMMEL F.H., HARGITAI L., HENNES E.C., **HUC A.Y.**, MULLER-WEGENER U, NIEMEYER J., NISSENBAUM A., SEKOULOV I., TIPPING E., WEBER J.H., ZEPP R.G., 1988.  
Humic substances: environmental reactions and functions.

*Group report Dahlem Workshop Report on "Humic substances and their role in the environment." - Eds Frimmel and R.F. Christmann. John Wiley and Sons Ltd, Chichester 1988, p. 245-256.*

- 42 - **HUC A.Y., 1988**  
Understanding organic facies: a key to improve quantitative petroleum evaluation of sedimentary basins (abstract).  
*A.A.P.G. Bull.*, 72/8 p. 1008.
- 43 - BROSSE E., LOREAU J.P., **HUC A.Y.**, FRIXA A., MARTELLINI L., RIVA A., **1988**  
The organic matter of interlayered carbonates and clays sediments. Trias/Lias, Sicily.  
In: *Advances in Organic Geochemistry*, Org. Geochem. 13, 1-3, p. 433-443
- 44 - **HUC A.Y., 1988**  
Aspects of depositional processes of organic matter in sedimentary basins.  
In: *Advances in Organic Geochemistry*, Org. Geochem. 13, 1-3, p. 263-272.
- 45 - CARPENTIER B., BESSEREAU G., **HUC A.Y., 1989**  
Diagraphies et roches mères, estimation des teneurs en carbone organique par la méthode Carbolog.  
*Rev. Inst. Fr. Pétr.*, 44, 6, p. 699-719.
- 46 - GASTALDO RA., ALLEN G.P., **HUC A.Y., 1989**  
Detrital peat formation in the tropical Mahakam River Delta, Kalimantan, Eastern Borneo : formation, plant composition and geochemistry.  
*Geological Society of America Abstract with program*, 21(6) : A26.
- 47 - HERBIN J.P., **HUC A.Y.**, BAUDIN F., DECOURT J., GEYSANT J., HUHN W., THUROW J., **1989**  
Toarcian, Kimmeridgian and Cenomano - Turonian organic-rich shales: similarities and differences.  
*Géochroniques*, 30, 53-54
- 48 - CARPENTIER B., BESSEREAU G., **HUC A.Y., 1989**  
Interpretation of sonic/resistibility cross-plot: a new method to provide organic carbon content profiles in source rocks.  
In: *EAPG - 1st international congress of the European Association of Petroleum Geoscientists*, Berlin, May 30-June 2 1989, Abstracts, p. 70.
- 49 - KENIG F., **HUC A.Y., 1990**  
Early sulfur incorporation in recent sedimentary organic matters, within Abu Dhabi carbonate environment.  
In: *Geochemistry of sulfur in fossil fuels* - eds. W. L. ORR and C.M. WHITE. ACS Symposium series 429, p. 170-185.
- 50 - **HUC A.Y.**, LE FOURNIER J., VANDENBROUCKE M., BESSEREAU G., **1990**  
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Depositional model for Infracambrian organic matter in South Oman Basin (Poster).  
*19<sup>th</sup> International Meeting on Organic Geochemistry, Istambul, Turkey, Sept. 6-10<sup>th</sup>, 1999.*
- 65- CHEN J., KOWALEWSKI I., TOULHOUAT H., **HUC A.Y.**, KOWALEWSKI I., **1999**  
Application of diamondoids to investigation of petroleum thermal maturity (Poster)  
*19<sup>th</sup> International Meeting on Organic Geochemistry, Istambul, Turkey, September 6-10<sup>th</sup>, 1999.*
- 66- GUEHENNEUX G.\*, KOWALEWSKI I., **HUC A.Y.**, **1999**  
Comparaison of high molecular weight hydrocarbon distributions in production oils and in reservoir rock extracts: a potential approach to predict wax precipitation (Poster).  
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- 67- **HUC A.Y. \***, GUEHENNEUX G., BEHAR E., **1999**  
A potential approach to predict wax precipitation from reservoir core analysis.  
*1<sup>st</sup> Latin American Workshop on Reservoir Geochemistry, La Havana, Cuba, Nov 7-9<sup>th</sup>, 1999.*
- 68- FREWIN N.L. \*, INDRELID S., KOWALEWSKI I., GUEHENNEUX G., **HUC A.Y.**, GELIN F., ALBRECHT P., CARPENTIER B., **2000**  
Accurate charge risking of unconventional source rock/reservoirs in South Oman (oral).  
*GEO 2000, Bahrain, March 27-29<sup>th</sup>, 2000.*
- 69- BEHAR E\*, CARPENTIER B., GUEHENNEUX G., **HUC A.Y.**, KOWALEWSKI I., **2000**  
Early prediction of wax precipitation (oral invité).  
*ACS Meeting, San Francisco, USA, March 26-3<sup>th</sup>, 2000.*
- 70- KOWALEWSKI I. \*, CHEN J., TOULHOUAT H., **HUC A.Y. \***, **2000**  
Assessment of petroleum thermal maturity using diamondoids (oral).  
*ACS Meeting, San Francisco, USA, March 26-31<sup>th</sup>, 2000.*
- 71- **HUC A.Y. \***, BERTRAND P., STOW D.A.V., **2000**  
Depositional processes of source rocks in deep offshore settings: Quaternary analogs (oral).  
*AAPG Meeting, New Orleans, USA, April 16-19<sup>th</sup>, 2000.*
- 72- **HUC A.Y. \***, VAN BUCHEM F.S.P., **2000**  
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*International Geological Congress, Rio de Janeiro, Brazil, August 6-10<sup>th</sup>, 2000.*

- 73- **HUC A.Y. \***, VAN BUCHEM F.S.P., **2000**  
 Depositional settings of Petroleum Source Rocks (keynote, invité).  
*Research Gordon Conference, Plymouth, NH, USAI, August 13-18<sup>th</sup>, 2000.*
- 74- **HUC A.Y.\*., 2001**  
 La Géochimie Organique (oral)  
*Journée Scientifique de l'Association Française des Techniciens du Pétrole : « Esprit de Synthèse en Géosciences » Paris La Défense 16 Mai 2001*
- 75- KOWALEWSKI I.\*, CARPENTIER B., **HUC A.Y.**, MAGNIER C., DELAMAIDE E. **2001**  
 Geochemical study of biodegraded heavy oils of Wabasca Sand deposits (Canada). (oral)  
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- 76- MORT A.J\*., KOWALEWSKI I., LAGGOUN-DEFARGE F., CARPENTIER B., **HUC A.Y.**,  
 ROUZAUD J.N., CONNAN J., PRADIER B. **2001**  
 Formation and evolution of solid bitumen in petroleum reservoirs (oral)  
*20<sup>th</sup> International Meeting on Organic Geochemistry, Nancy, France, 10-14 September 2001.*
- 77- MORT, A.J., KOWALEWSKI, I., **HUC, A.Y.**, Laggoun-Defarge, F., Rouzaud, J.N. **2001**  
 Investigation into tentative precursors of reservoir pyrobitumen. In: 221st ACS National Meeting. American Chemical Society, San Diego, CA.
- 78- MAGNIER C\*. KOWALEWSKI I., CARPENTIER B., **HUC A.Y.**, DELAMAIDE E.,  
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 Tentative quantification of the extent of biodegradation in oil fields using heavy metal content.  
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*20<sup>th</sup> International Meeting on Organic Geochemistry, Nancy, France, 10- 14 September 2001.*
- 79- **HUC A.Y. \***, **2001**  
 Reservoir geochemistry and reservoir compartmentalisation (oral).  
*SPE Applied technology workshop « Well Testing- To Test or not to test: Risks and Rewards » London, UK November 14-16<sup>th</sup>, 2001*
- 80 - ABDULLAH F\*., CARPENTIER B., KOWALEWSKI I., VAN BUCHEM F., **HUC A.Y.**, **2002**  
 Organic geochemical characterisation of carbonate reservoirs and source rocks in the Upper Cretaceous Mauddud Formation of Kuwait  
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- 81- KOWALEWSKI I., ADAM P\*. CARPENTIER B., **HUC A.Y.**, HANIN S., SCHAEFFER P.,  
 ALBRECHT P., FREWIN N.L., AI RUWEHY, NEWALL M. **2002**  
 Contribution of organo-sulfur compounds to the understanding of the fluid properties in South Oman: A selective retention phenomenon (oral)  
*Banff, Canada, 2002.*
- 82- KOWALEWSKI I.\*, CARPENTIER B., **HUC A.Y.**, GAULIER J.M., WOJCIAK P., FREWIN N.L.,  
 AL RUWEHY, NEWALL M. **2002**: « Characterization of unconventional organic matter in South Oman: effects on gas-oil generation ». *GEO 2002 Bahrain, April 15-17<sup>th</sup> – Geoarabia 7,2 ,262 (abstracts).*
- 83- HANIN S\*., ADAM P., KOWALEWSKI I., **HUC A.Y.**, CARPENTIER B., ALBRECHT P. **2003**.:  
 "Alkylated 2-Thiaadamantanes: molecular markers for thermochemical sulfate reduction"  
*21<sup>th</sup> International Meeting on Organic Geochemistry, Krakow, Poland, September 8-12<sup>th</sup>, 2003*
- 84- BEAUMONT, V\*., **HUC, A.Y.**, PRINZHOFER, A. **2004**  
 Natural CO<sub>2</sub> sequestration during Earth history: does the understanding of ancient geological processes may help in a better assessment of the fate of the current atmospheric CO<sub>2</sub>.  
*9<sup>th</sup> Latin American Congress on Organic Geochemistry. Merida, Mexico, 5-9 Decembre 2004.*
- 85 - MORT. A\*., LAGGOUN-DEFARGE, F, KOWALEWSKI, I., **HUC, A.Y. 2005**

- Thermal evolution of insoluble reservoir bitumen: artificial maturation by closed system pyrolysis  
16<sup>th</sup> Int. symposium on analytical Pyrolysis, Alicante, Spain
- 86 - MORT. A\*., LAGGOUN-DEFARGE, F., KOWALEWSKI, I., **HUC, A.Y.**, ROUZZAUD, J.N., MULLER F., **2005**  
Formation and thermal evolution of insoluble reservoir bitumen in angolan carbonate reservoirs.  
IMOG meeting, Sevilla, Spain, 12-19 Sept 2005,
- 87 - CARPENTIER. B\*, F. BEHAR, H. L. DE BARROS PENTEADO, F. LORANT, and **A.Y. HUC 2005**  
Prediction of Biodegradation in Basin Modelling – a new integrated approach  
IV Latin-American Workshop on Organic Geochemistry, Basin Modeling, Buenos Aires - Argentina, 17 - 19 October 2005
- 88 - CARPENTIER. B\*, F. BEHAR, H. L. DE BARROS PENTEADO, F. LORANT, and **A.Y. HUC 2005**  
New approach for predicting biodegradation in a basin modelling perspective  
American Association of Petroleum Geologists International Conference and exhibition, Paris, 11-14 Sep. 2005
- 89 - **HUC A.Y. 2006**  
La matière organique dans les bassins sédimentaires,  
Matière organiques, Geosciences et environnement : les perspectives : Colloque en l'honneur de Monsieur le Professeur J. Trichet, Orléans, France, 12 janvier 2006 (Invited speaker)
- 90 - **HUC A.Y. 2006**  
Histoire géologique du CO<sub>2</sub>  
Cycle du carbone: des temps géologiques aux temps futurs: Séminaire de l'Institut océanographique, 7 février 2006. (invited speaker)
- 91 - **HUC A.Y\*., F. VAN BUCHEM, G. DROMART, 2006**  
Source rocks in a modelling perspective (invited Keynote)  
*Architecture of carbonate systems through time, 30 April-3 May, Palma de Mallorca, Spain*
- 92- **HUC A.Y., F. VAN BUCHEM\*, 2006**  
Source rocks in a modelling perspective (invited introduction Keynote)  
*The Application of Earth System Modelling to Exploration" SEPM/GSL conference July 11<sup>th</sup>-13<sup>th</sup>, Snowbird, Utah, USA*
- 93- **HUC A.Y\*., F. VAN BUCHEM 2006**  
Source rocks in a modelling perspective (invited paper)  
*10<sup>th</sup> Alago Congress on Organic Geochemistry, November 4-10, 2006, Salvador de Bahia, Brazil*
- 94- **HUC A.Y\*., 2007**  
How to Reconcile Biological Control and Sequence Stratigraphic Concepts for Source Rock Deposition?" 2007 Force Conference. "*The importance of stratigraphy in source rock prediction and hydrocarbons migration*" 4-5 December 2007, Stavanger (invited conference)
- 95- MORT, A.J., LAGGOUN-DEFARGE, F., KOWALEWSLI, I. **HUC, A.Y.**, ROUZZAUD, J.N., MULLER, F. **2007**  
Are insoluble bitumens formed by thermal cracking in petroleum reservoirs. In: 23<sup>rd</sup> International Meeting on Organic Geochemistry. Elsevier, Torquay, UK.
- 96- **HUC A.Y\*., 2008**  
Sedimentary Organic Matter in the Earth System: Origin and Fate (Keynote lecture)  
*14th International Meeting of the International Humic Substances Society (IHSS-14), September 14-19, 2008 in Moscow – St. Petersburg, Russia.*

- 97- RODRIGEZ, J., **HUC A.Y.**, EL SOUKI, N., **2008**  
Nuevas posibles evidencias de rocas madres en la Cuenca Oriental de Venezuela (Poster) .  
*Latin american congress on organic geochemistry, 11<sup>th</sup> ALAGO, Porlamar, Venezuela, 2-6 november 2008*
- 98- **HUC A.Y.\*., 2008**  
In Reservoir Bitumen, with emphasize on Tar Mat occurrences (Keynote)  
and Discussion leader: on "Tarmats, definition and classification")  
*SPE/EAGE Workshop Maximizing Recovery from Reservoirs with Tar Mats, from Characterization to Production, Dubai, November 9<sup>th</sup>-12<sup>t</sup> , 2008*
- 99- **HUC A.Y\*., 2009**  
Development of different source rock types in major petroleum systems and the impact of organic facies on source rock kinetics (Guest speaker),  
*Chevron 2009 Hydrocarbon Charge Workshop, Houston May 31<sup>st</sup>, 2009*
- 100- **HUC A.Y\*., 2010**  
Les nouveaux pétroles, une extension du concept de système pétrolier 2010 (invited speaker)  
*Colloque "VERS LES ENERGIES DU FUTUR" Toulouse, 6 avril 2010*
- 101- LAMOUREUX-VAR, V., KOHLER, E., **HUC, A.Y.**, E., BERGER E., FUSETTI, L. **2011**  
Laboratory simulation of H<sub>2</sub>S and CO<sub>2</sub> generation in steamed oil sands, Orinoco Belt, Venezuela  
AAPG HEDBERG CONFERENCE "Natural Gas Geochemistry: Recent Developments, Applications, and Technologies" May 9-12, 2011 – Beijing, China
- 102- **A.Y. HUC\***, D. GRANJEON, B. CHAUVEAU, **2012.**  
Conceptual depositional model of organics in marine environment: integrating biology and sedimentology: Towards a forward modelling.  
AAPG Convention, April 22-27, 2012 Long Beach California, USA
- 103- M. ROMERO-SARMIENTO, F. LORANT, M. DUCROS, B. CARPENTIER, S.ROHAIS,I. MORETTI, **A.Y. HUC\*** ; **2012.**  
Predicting TOC, Organic porosity and Retention distribution in a shale gas system using petroleum basin modelling.  
AAPG Convention, April 22-27, 2012 Long Beach, California, USA
- 104- CHAUVEAU, B\*., GRANJEON, D. **HUC, A.Y. 2012.**  
Depositional model of marine organic matter coupled with a stratigraphic forward numerical model: Application to the Devonian Marcellus Formation.  
AAPG HEDBERG CONFERENCE " Petroleum Systems: modelling the past, Planning the future"; 1-5 October 2012, Nice, France.
- 105- **HUC, A.Y.\***, CHAUVEAU, B., GRANGEON, D. **2012**  
From living organisms to kerogen: a conceptual depositional model of organics in marine environment.  
XIII ALAGO Congress, 12-15th November 2012, Santa Marta, Colombia
- 106- **HUC, A.Y. 2013**  
African Rifts and source rocks (invited keynote)  
12<sup>th</sup> PESGH/HGS Conference on African Rift E&P, "Africa: Success in rift, sag and passive Margin settings"  
London, September 11-12<sup>th</sup>, 2013
- 107- LAMOUREUX-VA, V. **HUC, A.Y.**, K. TRABELSI, J. ESPITALIE, B. CARPENTIER, D. PILLOT, G. LETORT, R. ANTONAS, B. GARCIA, V. BEAUMONT, M.-F. ROMERO-SARMIENTO **2014.**  
Best Practice for Rock-Eval pyrolysis with emphasize on unconventional prospects  
XIV ALAGO Congress, 2-5 of November 2014, in Armação dos Búzios (Brazil)

- 108- ROMERO-SARMIENTO, M.F., LETORT, J., PILLOT, D., LAMOUREUX-VAR, V., BEAUMONT, V., **HUC, A.Y.**, GARCIA, B. **2014**.  
New Rock-Eval method for characterization of shale plays. XIV ALAGO Congress, 2-5 of November 2014, in Armação dos Búzios (Brazil)
- 109- LAIGLE, J.M., BARERRA ORTIZ, GARRCIA, G., HUC, A.Y., LAVAL, J., MACHAULT, V. **2014**  
Added value of basin modeling for unconventional resources evaluation  
SPE Workshop, Southern Extension of the Eagle Ford: Across-Border Collaboration, 2-3 December 2014, Corpus Christi, Texas, USA
- 110- **HUC, A.Y. 2016**  
Source rocks: Global and regional control on organic matter accumulation; Middle East Examples (invited keynote)  
Source rocks of the Middle East, AAPG Workshop, 25-26 January Abu Dhabi, UAE.
- 111- LAIGLE, J.M., **HUC, A.Y.**, PIRIOU, S., MOUCHOT N., PICHOT, T., ARMSTRONG, J. **2016**.  
Source Rock correlations in Mesozoic basins of the North Atlantic Conjugate Margin, Offshore Ireland. PIP-ISPSG Atlantic Ireland 2016 Conference 1-2 2016, Dublin, Ireland.
- 112- **HUC, A.Y. 2017**. Integrating concepts for source rock deposition; **Short course**, 79th EAGE Conference & Exhibition 2017 Energy, Technology, Sustainability - Time to open a new Chapter, June 12-15th, Paris, France
- 113- **HUC, A.Y.**, CHAUVEAU, B., **2019**. Source Rock: Organic Factory, Facts and Modelling (Invited Speaker). AAPG Geosciences Technology Workshops, February 11-13<sup>th</sup>, Dubai, UAE