

23 Abstracts:

FERREIRO MÄHLMANN, R. (1991): Paleogeothermal and tectogenetic evolution of the Austroalpine Nappes in the Grisons and Vorarlberg (Switzerland and Austria). A continuous non paroxistic model of the Cretaceous Alpine Orogenesis. - Abstract: IGCP Project 294 meeting, Low Temperature Metamorphism, p. 18, Auckland, New Zealand.

FERREIRO MÄHLMANN, R. (1991): Die Temperaturgeschichte im Unterostalpin und Pennin des Oberhalbsteins und ihre tektonetische Bedeutung (Graubünden, Ostschweiz). - Abstract: Schweiz. geol. Ges., Chur, Switzerland.

FERREIRO MÄHLMANN, R. (1993): Illit-*"Kristallinität"* und Diagenese-Metamorphose-indikation. DMG Jahrestagung, Berlin - Abstract: Ber. dtsch. mineralog. Ges., **1993**/1, p. 293.

FERREIRO MÄHLMANN, R. (1995): The pattern of diagenesis and metamorphism by vitrinite reflectance and illite-'crystallinity' in Mittelbünden and in the Oberhalbstein (Eastern Switzerland). EUG Strasbourg, France - Terra Abstracts, Terra nova, v. 7, Abstract Supplement 1, p. 127.

FERREIRO MÄHLMANN, R. (1995): Das Diadenese-Metamorphose-Muster in Mittelbünden und im Oberhalbstein. Korrelation kohlenpetrographischer und mineralogischer Parameter mit Vitrinitreflexions-Thermometern. - Abstract: 12. Schweiz. Tektonikertreffen, Fribourg, Switzerland.

FERREIRO MÄHLMANN, R. (1995): Coal petrographic and mineralogical determination of the pattern of diagenesis and metamorphism, Mittelbünden and Oberhalbstein, Switzerland. DMG Strasbourg, France - Abstract: Ber. dtsch. mineralog. Ges., **1995**/1, p. 63.

FERREIRO MÄHLMANN, R. (1996): Vitrinite paleogeothermometers: Comparative application and time-temperature modeling in the Alpine orogen (Graubünden, Switzerland). – Abstract: Metamorphic Studies Group-meeting: 'What drives metamorphism and metamorphic reactions', Kingston upon Thames. Abstract: MinPet. 96, SMPG-ÖMG Jahrestagung, Schwaz, Österreich - Mitt. österreich. mineralog. Ges., v. **141**, p. 83-84.

FERREIRO MÄHLMANN, R. (1997): Coal petrological and mineralogical low temperature indicators and maturity modeling: Comparative application from diagenesis to low greenshist and blueshist facies. DMG Köln, Germany - Abstract: Ber. dtsch. mineralog. Ges., **1996**/1, p. 101.

FERREIRO MÄHLMANN, R. (1998): Das Diadenese-Metamorphose-Muster in Mittelbünden und im Oberhalbstein: Geochronologie und Metamorphosegeschichte. EUG Strasbourg, France – Abstract: Terra Nostra, v. **98**/1, p. 46-47.

FERREIRO MÄHLMANN, R. (1998): Das Diadenese-Metamorphose-Muster in Mittelbünden, Geochronologie und Metamorphosegeschichte. Abstract: 15. Schweiz. Tektonikertreffen, Bern, Switzerland. Abstract: SMPG Jahrestagung, Airolo, Switzerland.

FERREIRO MÄHLMANN, R. (1999): Permo-Triassic diastathermal metamorphism in the Austroalpine basement and its sedimentary cover units. EUG 10 Strasbourg, France - Terra Abstracts: J. of Conference Abstracts, v. **4**/1, p. 297-298.

FERREIRO MÄHLMANN, R. (2000): The tectono-metamorphic evolution of the Lower Austroalpine in the Oberhalbstein (Switzerland): very low grade metamorphic data combined with a thermal maturity modeling approach. TSK, Freiburg i.Br., Germany – Abstract: 8. Symposium “Tektonik, Struktur- und Kristallingeologie”, p. 16, 4.-6. Oktober,

FERREIRO MÄHLMANN, R. (2010): Coal and clay-mineral very low- to low-temperature indicators, comparative application from diagenesis to green- and blueschist facies. – Abstract: SEA-CSSJ-CMS, Trilateral Meeting on Clays, TMC 6. – 11. June, Madrid-Sevilla, Spain, Clay Minerals Society.

FERREIRO MÄHLMANN, R. (2011): Dewatering path-ways during orogenic metamorphism in a diagenetic/very low-grade tectonic-metamorphic mélange (Arosa zone, Eastern Switzerland). Poster presentation, EUROCLAY 26 June – 01 July, Second Frey-Kübler Symposium, Antalya, Turkey.

FERREIRO MÄHLMANN, R. (2011): Thermo-barometric use of coal and clay-mineral indicators, comparative application from diagenesis to sub-greenschist and sub-blueschist facias. EUROCLAY 26 June – 01 July, Second Frey-Kübler Symposium, **Invited Plenary Lecture**, Antalya, Turkey.

FERREIRO MÄHLMANN, R. (2013): Dewatering path-ways evidenced by clay minerals in a diagenetic/very low-grade tectono-metamorphic mélange (Arosa zone, Eastern Switzerland). DTTG Jahrestagung, München.

FERREIRO MÄHLMANN, R. (2013): Standardisation, calibration and correlation of the Kübler-Index and the vitrinite/bituminite reflectance: an inter-laboratory and field related study. Swiss Geoscience Meeting 15th – 16th November, University Lausanne.

FERREIRO MÄHLMANN, R. (2014): Dewatering path-ways evidenced by clay minerals in a diagenetic/very low-grade tectono-metamorphic mélange (Arosa zone, Eastern Switzerland). Session 5: Clay minerals in diagenetic and low temperature metamorphic environments. VLG-T09, p. 119, Mid-European Clay Conference (MECC), 16th – 19th September, Dresden, Germany.,

FERREIRO MÄHLMANN, R. (2015): Applying different clay mineral and organic matter indices to determine rock maturity and grade of diagenesis to incipient metamorphism focused on correlation problems. Third Frey-Kübler symposium: Clay mineral indices in palaeo-geothermal studies, hydrocarbon and geothermal prospection, Abstract Book, p. 123, EUROCLAY, 7th July, Edinburgh, Scotland UK.

FERREIRO MÄHLMANN, R. (2018): Preliminary attempt to define grade of diagenesis and incipient metamorphism considering geothermal gradients calibrated with clay mineral, mineral and maceral index data. Session E: Clay (and associated) minerals in geological systems. Abstract Book, p. 43, Mid-European Clay Conference 09 (MECC), 17-21 September, **Invited Keynote Lecture**, Zagreb, Croatia.,

28 Abstracts mit Mitarbeitern:

FERREIRO MÄHLMANN, R., PETSCHICK, R., ERDELROCK, K., WOLF, M., KRUMM, H., BERNOULLI, D., FREY, M. & JÄGER, E. (1991): A coalification map of the Central Alps. – Appenzell, St. Gallen, Glarus, Graubünden, Vorarlberg and Tyrol (Switzerland, Liechtenstein and Austria). Poster presentation – Abstract Schweiz. geol. Ges., Chur. Also presented as:

KRUMM, H., FERREIRO MÄHLMANN, R., PETSCHICK, R., ERDELROCK, K., WOLF, M., BERNOULLI, D., FREY, M. & JÄGER, E. (1991), Poster presentation at the IGCP Project 294 meeting, Low Temperature Metamorphism, p. 28, Auckland.

FERREIRO MÄHLMANN, R., PETSCHICK, R. & KRUMM, H. (1991): Diagenesis to low grade metamorphism in Tyrol, Vorarlberg and Grisons (Austria and Switzerland) - new maps. Poster presentation at EUG Strasbourg, France - Terra Abstracts, v. 3/1, p. 105.

FERREIRO MÄHLMANN, R., PETSCHICK, R., ERDELROCK, K., KRUMM, H., WOLF, M. & BERNOULLI, D. (1992): Coalification map of the Pennine-Austroalpine-Boundary (Switzerland, Liechtenstein and Austria). Poster presentation at ALCAPA meeting, Graz, Austria, 1 - 3 July - Terra abstracts, Terra Nova, v. 4, Abstract Supplement 2, p. 2.

FERREIRO MÄHLMANN, R., KRUMM, H., WOLF, M., BERNOULLI, D. & JÄGER, E. (1993): Polyphase Metamorphose und ihre zeitliche Einordnung im Grenzbereich West-/Ostalpen. Poster presentation at DMG Jahrestagung, Berlin – Abstract: Ber. dtsch. mineralog. Ges., 1993/1, p. 250.

FERREIRO MÄHLMANN, R. & PETSCHICK, R. (1993): Probenaufbereitung für die Illit- "Kristallinitäts"-Untersuchungen und Altersdatierungen an Illitfraktionen sowie Eichungen und Ringuntersuchungen zur Illit- "Kristallinität". - Unpubl. Manuskr.: Bibl. Inst. für Geochemie, Petrologie und Lagerstättenkunde, Univ. Frankfurt am Mai (open file report).

FERREIRO MÄHLMANN, R., GIGER, M. & FLISCH, M. (1993): Der Nachweis der "Tscherpen-Dorfbergdecke" in der alpinen Suturzone mit radiometrischen Glimmer- und Illit-Altern, Spaltpuren-Altern, der Illit- "Kristallinität", und der Inkohlungsbestimmung. DMG Jahrestagung, Berlin - Abstract: Ber. dtsch. mineralog. Ges., 1993/1, p. 125.

FERREIRO MÄHLMANN, R. & PETSCHICK, R. (1996): Illit- "Kristallinität", Vitrinitreflexion und Maturitäts-Modellierungen: Tektonische Fallstudien aus der Lechtal- und Silvretta Decke. TSK, Salzburg, Austria - Abstract: 6. Symposium Tektonik-Strukturgeologie-Kristallingeologie, Facultas Universitätsverlag, Salzburg, p. 112-115.

FERREIRO MÄHLMANN, R. & PETSCHICK, R. (1996): The coalification map of the Alps between the rivers Inn, Isar and Rhein (Austria and Switzerland): thermo-tectonic relations.

Poster presentations:

1.) Abstract: Metamorphic Studies Group-meeting: 'What drives metamorphism and metamorphic reactions', Kingston upon Thames.

2.) Abstract: MinPet. 96, SMPG-ÖMG Jahrestagung, Schwaz, Austria - Mitt. österreich. mineralog. Ges., v. 141, p. 85-86.

3.) Abstract: 14. Schweiz. Tektonikertreffen, Basel; Switzerland.

FERREIRO MÄHLMANN, R. & PETSCHICK, R. (1997): The coalification map of the Alps between the rivers Inn, Isar and Rhein (Austria and Switzerland): thermo-tectonic relations. Poster presentation at EUG Strasbourg, France - Terra Abstracts: Terra nova, v. 9, Abstract Supplement, No. 1, p. 576.

FERREIRO MÄHLMANN, R., GIGER, M. & FLISCH, M. (1998): Vergleichende Untersuchungen von Glimmer-, Illit- und Spaltspurenaltern mit Methoden zur Bestimmung niedriggradiger Metamorphose im Bereich der Arosa Zone Mélange in Graubünden (Schweiz). DMG-DGG Jahrestagung, Geo-Berlin'98, Germany – Abstract: Ber. dtsch. mineralog. Ges., **1998**/1, p. 88.

FERREIRO MÄHLMANN, R., BELMAR, M. & CIULAVU, M., (2001): Bituminite reflectance in very low grade metamorphic studies. Terra Abstracts: J. of Conference Abstracts, EUG 11, FMF1, Diagenesis and Low-Grade Metamorphism, v. **6/1**, p. 230. **Invited Keynote Lecture**, Strasbourg, France.

FERREIRO MÄHLMANN, R., BELMAR, M., CIULAVU, M., DALLA TORRE, M., PETROVA, T., POTEL, S., SCHMIDT, D., ZIMMERMANN, B., BARRENECHEA, J. & ERNST, G.W. (2002): Anwendungsmöglichkeiten der Bituminitreflexion zur Erkennung mehrphasiger, niedriggradiger Metamorphosen: Tektono-metamorphe und genetische Folgerungen. TSK, Erlangen, Germany - Abstract: 9. Symposium: “Tektonik, Struktur- und Kristallingeologie”.

FERREIRO MÄHLMANN, R. & ERNST, G.W. (2003): Laboratory study of vitrinite maturation rate as a function of temperature, time, starting material, aqueous fluid pressure, and oxygen fugacity: Corroboration of prior work. DMG Jahrestagung, Bochum, Germany – Abstract: Ber. dtsch. mineralog. Ges., p. 52.

FERREIRO MÄHLMANN, R. & ERNST, G.W. (2003): Laboratory study of vitrinite maturation rate as a function of temperature, time, starting material, aqueous fluid pressure, and oxygen fugacity — Corroboration of prior work. EUG, Nice, France – Abstract: Geophysical Research Abstracts, Vol. 5, 04413, EGU Nice 2003.

FERREIRO MÄHLMANN, R. & GIGER, M. (2005): Tectono-thermal history of the Penninic-Austroalpine boundary (Arosa zone, Eastern Switzerland). Abstract: Arbeitstagung der Geologischen Bundesanstalt, Gmünd, Kärnten, Austria.

FERREIRO MÄHLMANN, R. & GIGER, M. (2010): The Arosa zone in Eastern Switzerland, the diagenetic to metamorphic pattern of a tectono-metamorphic mélange. MECC, Budapest, Hungary – Abstract: Mid-European Clay Conference, Eötvös Loránd University, Budapest.

FERREIRO MÄHLMANN, R., BOZKAYA, Ö., POTEL, S., LE BAYON, R., ŠEGVIĆ, B. & NIETO GARCÍA, F. (2012): The pioneer work of Bernard Kübler and Martin Frey in very low-grade metamorphic terranes: Paleo-geothermal potential of variation in Kübler-Index/ organic matter reflectance correlations – a review. Swiss Geoscience Meeting 16th – 17th November 2012, University Bern.

FERREIRO MÄHLMANN, R. & NGUYEN-THANH, L. (2014). Standardisation, calibration and correlation of the Kübler-Index. Session 5: Clay minerals in diagenetic and low temperature metamorphic environments. Mid-European Clay Conference (MECC), 16-19 September, Dresden, Germany.

FERREIRO MÄHLMANN, R. & LE BAYON, R. (2014). Correlation of vitrinite like bituminite reflectance with vitrinite reflectance in various geological settings: A tool for determining organic matter maturation level. Session A09: Organic petrology, organic geochemistry and mineralogy in basic research and applied geosciences. GeoFrankfurt 2014, Goethe University, Frankfurt am Main, Germany.

FERREIRO MÄLmann, R., WOLF, W., BERNOULLI, D., PETSCHICK, R., MEISTER, P., MULLIS, J. & KRUMM, H. (2015): Traces of burial Permo-Triassic and Jurassic heating discriminated from the Cretaceous Upper-Austroalpine orogenetic diagenetic-metamorphic pattern by organic matter studies and maturity modelling (Mittelbünden, Switzerland). 67th Annual Meeting of the International Committee for Coal and Organic Petrology (ICCP). Schriftenreihe der Deutschen Gesellschaft für Geowissenschaften, Heft 87, p. 51–52.

FERREIRO MÄLmann, R., WOLF, W., BERNOULLI, D., PETSCHICK, R., MEISTER, P., MULLIS, J., GIGER, M. & KRUMM, H. (2017): Traces of Permian to Jurassic burial discriminated from the Cretaceous orogenetic metamorphic pattern (Upper-Austroalpine, Graubünden, Switzerland). Session: MI-03 Clay mineral reaction progress in very low-grade temperature petrologic studies. AIPEA XVI International Clay Conference (ICC), 17-21 July, Granada, Spain.

FERREIRO MÄHLMANN, R., POTEI, S., NGUYEN-THANH, L., PETSCHICK, R. & RAHN, M. (2019): Determination of a normal palaeo-geothermal gradient comparing the reaction progress of clay minerals calibrated with organic maturity indices. Dedicated to the 90th birthday of Hans Krumm. Session B7: Diagenesis and Low- Grade Metamorphism (4th Frey-Kübler Symposium), Abstract Book, p. 242, International Conference on Clay Science and Technology, EUROCLAY, 1-5 July, Paris, France.

FERREIRO MÄHLMANN, R., NGUYEN-THANH, L., RAHN, M., POTEI, S. & PETSCHICK, R. (2022): Clay mineral paragenesis changes along an orogenic normal geothermal gradient. Thematic Session 27 - Clay mineral reaction progress during burial diagenesis and very low-temperature metamorphism. AIPEA XVII International Clay Conference (ICC), 25-29 July, Istanbul, Turcay.

FERREIRO MÄHLMANN, R. & POTEI, S. (2022): Illite b_0 lattice indices and pressure constraints in normal geothermal gradient settings. Thematic Session 26 - Clay minerals studies in sedimentary basins predicting geotherms, fluid- and hydrocarbon migration systems. AIPEA XVII International Clay Conference (ICC), 25-29 July, Istanbul, Turcay.

FERREIRO MÄHLMANN, R., BAPTISTA, P., SCHEUVENS, D., OSORIO, M., CLAMOTE, V., VINTRICI, G. & ARAQUE GONZALEZ, R. (2023): Petrographical, mineralogical, geochemical and geo-morphological provenience study on granite stelae from the Beira Alta (Portugal). DGGV GeoBerlin 2023, Topic: 4.11 Geo-scientific methods in Archaeology, Archaeometry and Experimental Archaeology, Berlin, Germany.

FERREIRO MÄHLMANN, R., ARAQUE GONZALEZ, R., ASMUS, A., PANIEGO DÍAZ, P., RICHTER, R., VINTRICI, G., BAPTISTA, P. & SCHEUVENS, D. (2023): Which tools did stonemasons from the Late Bronze Age in the Iberian Peninsula use to carve stelae from hard rocks? DGGV GeoBerlin 2023, Topic: 4.11 Geo-scientific methods in Archaeology, Archaeometry and Experimental Archaeology, Berlin, Germany.

53 Abstracts, beteiligt als Koautor (alphabetisch; unterstrichen: Vortrag gehalten):

- ARAQUE GONZALEZ, R., ASMUS, B., BAPTISTA, P., CLAMOTE, V., FERREIRO MÄHLMANN, R., KAISER, M., OSÓRIO, M., PANIEGO DÍAZ, P., RICHTER, A., VINTRICI, G. (2022): El Primer Hierro en la Península Ibérica y sus Relaciones con la Elaboración de las Estelas del Suroeste. EIVISSA 2022 10th International Congress of Phoenician and Punic Studies, X Congreso Internacional de Estudios Fenicios y Púnicos, Octubre 17 – 21 de 2022, Santa Eulària des Riu, Isla de Ibiza.
- ARAQUE GONZALEZ, R., ARMADA PÍTA, X.L., ASMUS, B., BAPTISTA, P., CLAMOTE, V., FERREIRO MÄHLMANN, R., KAISER, M., OSÓRIO, M., PANIEGO DÍAZ, P., RICHTER, A., VINTRICI, G. (2022): The Protohistoric Warrior Stelae and the Oldest Iron Chisels of the Iberian Peninsula. International Cobgress of Experimental Archaeology CONEXP 2022, 25-28.10.22.
- BELMAR, M., SCHMIDT, S.Th., FREY, M., FERREIRO MÄHLMANN, R & MULLIS, J. (2001): Low-Grade and Contact Metamorphism in Volcanic and Volcaniclastic Successions, Río Tinguiririca Valley, Central Andes of Chile. – Terra Abstracts, J. of Conference Abstracts, EUG 11, FMF1, Diagenesis and Low-Grade Metamorphism, v. **6/1**, p. 238.
- BOZKAYA, Ö., FERREIRO MÄHLMANN, R., YALÇIN, H. & GÖNCÜOGLU, M.C. (2017). Organic matter reflectance and clay mineralogical evidences for orogenic events: Example from very low-grade metamorphic sequences in southern and north-western Turkey. Session MI-03: Clay mineral reaction progress in very low-grade temperature petrologic studies. XVI International Clay Conference (ICC), 17-21 July, Granada, Spain.
- BOZKAYA, Ö., YALÇIN, H., UYSAL, I.T., GÖNCÜOGLU, M.C., FERREIRO MÄHLMANN, R. & OKUYUCU, C. (2018). Illitization age data on pre-Alpine geological events: an example from the autochthonous Paleozoic sequence, Tauride Belt, Southern Turkey. Session E: Clay (and associated) minerals in geological systems. Abstract Book, p. 25, Mid-European Clay Conference 09 (MECC), 17-21 September, Zagreb, Croatia.
- CHARRIER, M.E., NGUYEN-THANH, L., BAULUZ, B., HOANG-MINH, T., RAINER PETSCHICK, R. & FERREIRO MÄHLMANN, R. (2019): Mineralogical Alteration of Fe-smectite in High Alkaline Solutions. Session A2: Experimental and numerical analysis of clay systems: bridging time and length scales, Abstract Book, p. 472, International Conference on Clay Science and Technology, EUROCLAY, 1-5 July, Paris, France.
- CIULAVU, M. & FERREIRO MÄHLMANN, R. (1999): The Alpine metamorphic pattern in the Danubian Window, South Carpathians (Romania). – Terra Abstracts, J. of Conference Abstracts, EUG 10, v. **4/1**, p. 781.
- CIULAVU, M., FERREIRO MÄHLMANN, R., SEGHEDI, A. & FREY, M. (1999): Very low grade metamorphism in the Danubian window, South Carpathians (Romania): PT conditions inferred from clay minerals study - Euroclay 1999 Krakow, Poland.
- CIULAVU, M., FERREIRO MÄHLMANN, R., SEGHEDI, A. & FREY, M. (2001): Very low grade metamorphism in the Danubian window, South Carpathians (Romania): – Terra Abstracts, J. of Conference Abstracts, EUG 11, FMF1, Diagenesis and Low-Grade Metamorphism, v. **6/1**, p. 231.
- DALLA TORRE, M., FERREIRO MÄHLMANN, R. & ERNST, W.G. (1996): Pressure dependance of the maturation rate of organic matter. - Abstract: p. 14. Schweiz. Tektonikertreffen, Basel.

DÖBLER, T., FERREIRO MÄHLMANN, R., SCHEUVENS, D., CLAMOTE, V., HENRIQUE, F., OSORIO, M., BAPTISTA, P., POTEL, P., NGUYEN THANH, L. & ARAQUE GONZALEZ, R. (2023): Metamorphic mapping and geo-morphologic considerations to locate the extraction sites of meta-psammite Late Bronze Age stelae from the Beira Interior (Portugal). DGGV GeoBerlin 2023, Topic: 4.11 Geo-scientific methods in Archaeology, Archaeometry and Experimental Archaeology, Berlin, Germany.

ERNST, W.G. & FERREIRO MÄHLMANN, R. (2002): Experimental Rate Study of Vitrinite Maturation as a Function of Temperature, Time, Starting Material, Aqueous Fluid Pressure, and Oxygen Fugacity-Corroboration of Prior Work. American Geophysical Union Spring meeting Eos. Trans. AGU, 83(19), Spring Meet. Suppl., Abstract V41A-10. **Invited Keynote Lecture**, Washington D.C., USA.

FÜGENSCHUH, B., FERREIRO MÄHLMANN, R., SCHMID, S.M. & FROITZHEIM, N. (1999): Tertiary core complex formation in the Southern Carpathians: constraints from structural, petrological and fission-track studies. – Terra Abstracts, J. of Conference Abstracts, EUG 10, v. 4/1, p. 33.

HOANG-MINH, T., NGUYEN-THANH, L., HERBERT, H.J., KASBOHM, J., THI LAI, L., NGOC NGUYEN, M. & FERREIRO MÄHLMANN, R. (2017): Development of Fe-rich clays in weathering profile derived from serpentized ultramafic rock in Nui Nua massif, Viet Nam. Session ES03: From soil to shallow groundwater: The influence of clays on the Critical Zone. XVI International Clay Conference (ICC), 17-21 July, Granada, Spain.

LE BAYON, R. & FERREIRO MÄHLMANN, R. (2011): Experimental investigations on vitrinite reflectance: toward a tool to model maturation and metamorphic conditions in low temperature metasedimentary terranes. EUROCLAY 2011, Frey-Kübler Symposium, Antalya, Turkey.

LE BAYON, R. & FERREIRO MÄHLMANN, R. (2011): Experimental investigations on vitrinite reflectance: Toward a tool to model maturation and metamorphic conditions in low temperature metasedimentary terranes. Abstract: GV – DGG – GSA 2011, München, Germany.

MAISON, T., POTEL, S., MALIE, P., FERREIRO MÄHLMANN, R., CHANIER, F., MAHIEUX, G. & BAILLEUL, J. (2018): Low-grade evolution of clay minerals and organic matter in fault zones of the Hikurangi prism (New Zealand). Session 2.5: De l' arrière – à l' avant – arc: tectonique et sédimentation des zones de subduction. 26. Réunion des Sciences de la Terre (RST), p. 282, 22th - 26th October 2017, Lille, France.

MALIE, P., POTEL, S., BAILLEUL, J., CHANIER, F., MAHIEUX, G., CARON, V., CROMBEZ, V., VAUTIER, Y., NICOL, A., FIELD, B. & FERREIRO MÄHLMANN, R. (2014): Factors controls on the thermal evolution of slope basins of the Hikurangi subduction wedge, North Island, New Zealand. Abstract: RST 2014, OS14, Pau, France.

MALIE, P., POTEL, S., FERREIRO MÄHLMANN, R., BAILLEUL, J., CHANIER, F., MAHIEUX, G. & FIELD, B. (2015): Low-grade study on the thermal evolution of Wairarapa area, North Island, New Zealand. Session: Third Frey-Kübler symposium: Clay mineral indices in palaeo-geothermal studies, hydrocarbon and geothermal prospection, p. 246. EUROCLAY Edinburgh, Scotland UK, 7th July 2015.

MALIE, P., POTEL, S., FERREIRO MÄHLMANN, R., BAILLEUL, J., CHANIER, F., TOULLEC, R., MAHIEUX, G., CROMBEZ, V., MAISON, T. & FIELD, B. (2016): Multi-proxy analysis of the burial history of slope basins on the Hikurangi accretionary wedge (North Island, New Zealand). Thème 2 – Bassins, réservoirs et enregistrements sédimentaires. 2.9 – Systèmes pétroliers, réservoirs et Roches mères. Abstract: RST 2016, Caen, France.

MALIE, P., POTEL, S., FERREIRO MÄHLMANN, R., BAILLEUL, J., CHANIER, F., MAISON, T., TOULLEC, R., MAHIEUX, G. & FIELD, B. (2017): Application of organic matter and clay studies to the Mio-Pliocene tectonic history of the Hikurangi prism (North Island, New Zealand). Session GG04: Clay minerals in sediments: palaeoenvironment, geodynamic evolution and sedimentary basins. XVI International Clay Conference (ICC), 17-21 July, Granada, Spain.

MALIE, P., FERREIRO MÄHLMANN, R., BAILLEUL, J., MAISON, T., CHANIER, F., TOULLEC, R., MAHIEUX, G., FIELD, B. & POTEL, S. (2017): Diagenetic organic matter and clay studies to precise the geodynamic history and hydrocarbon migration system of the Hikurangi prism (North Island, New Zealand). Symposium: Sedimentology and Resources. Session SR4.2, FSD 8.8: Geothermal studies in sedimentary basins with clay minerals and organic indices to characterize present-day geotherms, fluid- and hydrocarbon migration systems. International Meeting of Sedimentology, 10th -12th October 2017, Toulouse, France.

MALIE, P., BAILLEUL, J., FERREIRO MÄHLMANN, R., CHANIER, F., TOULLEC, R., MAHIEUX, G., MAISON, T., FIELD, B. & POTEL, S. (2017): Solid bitumen in Miocene tubular carbonate concretions and fault planes in the Hikurangi accretionary wedge (North Island, New Zealand): Implications to the hydrocarbons migration and cold seep systems. Symposium: Sedimentary Basins. Session SB 5.2: Subduction related basin dynamics. Poster presentation. International Meeting of Sedimentology, 10th -12th October 2017, Toulouse, France.

MALIE, P., BAILLEUL, J., CHANIER, F., POTEL, S., MAHIEUX, G., TOULLEC, R. & FERREIRO MÄHLMANN, R. (2018): Intervenant fossile plumbing system of oil and gas hydrocarbon seepage – impact on the shallow fluid migration system of the Hikurangi prism (North Island, New Zealand). Session 1.5: Cycles sédimentaires et cycles tectoniques. Les figures d'expulsion , marqueurs et traceurs des circulations de fluides en sub-surface dans les bassins sédimentaires. 26. Réunion des Sciences de la Terre (RST), p. 109, 22th - 26th October 2017, Lille, France.

MALIE, P., BAILLEUL, J., CHANIER, F., POTEL, S., MAHIEUX, G., MAISON, T. & FERREIRO MÄHLMANN, R. (2018): Geodynamic history and hydrocarbon migration system of the Hikurangi subduction wedge (North Island, New Zealand). Session 2.5: De l' arrière – à l'avant – arc: tectonique et sédimentation des zones de subduction. 26. Réunion des Sciences de la Terre (RST), p. 283, 22th - 26th October 2017, Lille, France.

MALIE, P., FERREIRO MÄHLMANN, R., POTEL, S., MAISON, T., CHANIER, F., MAHIEUX, G. & BAILLEUL, J. (2019): Low grade metamorphic study to precise the geodynamic history and hydrocarbon migration system of the Hikurangi prism (North Island, New Zealand). Session B7: Diagenesis and Low-Grade Metamorphism (4th Frey-Kübler Symposium), Abstract book, p. 412, International Conference on Clay Science and Technology, EUROCLAY, 1st - 5th July, Paris, France.

MELESHYN, A., HINZE, M., KRÖHN, M., MIDDELHOFF, M., JANTSCHICK, K., CZAIKOWSKI, O., NGUYEN-TANH, L., FERREIRO MÄHLMANN, R., KASBOHM, J. & HOANG-MINH, T. (2023): Experiment und THMC-Simulation zur thermischen Integrität von Bentonit und Tongestein. Tage der Standortauswahl 2024, TU Clausthal, Bundesgesellschaft für Endlagerung (BGE), Clausthal, Deutschland.

MULLIS, J., WOLF, M. & FERREIRO MÄHLMANN, R. (2001): Temperature determination through fluid inclusion microthermometry and vitrinite reflectance values in the diagenetic- and anchizones. - Terra Abstracts, J. of Conference Abstracts, EUG 11, FMF1, Diagenesis and Low-Grade Metamorphism, v. **6/1**, p. 231.

MULLIS, J., WOLF, M. & FERREIRO MÄHLMANN, R. (2003): Temperature determination between 50 and 270 °C through fluid inclusion microthermometry and vitrinite reflectance values in the external parts of the Central Alps. Geophysical Research Abstracts, Vol. 5, 04334, EGU 12, **Invited Keynote Lecture**, Nice, France.

MULLIS, J., WOLF, M., & FERREIRO MÄHLMANN, R. (2015): Temperature determination between 50 and 270 °C through fluid inclusion microthermometry and vitrinite reflectance values in the external parts of the Central Alps. Session: Third Frey-Kübler symposium: Clay mineral indices in palaeo-geothermal studies, hydrocarbon and geothermal prospection, p. 124. EUROCLAY Edinburgh, Scotland UK, 7th July 2015.

NGUYEN-TANH, L., HERBERT, H.J., KASBOHM, J., HOANG-MINH, T. & FERREIRO MÄHLMANN, R. (2014): Effects of chemical structure on stability of smectites in short-term alteration experiments. Session RWD-P03: Stability of engineered clay barriers in radioactive waste disposal, p. 322. Mid-European Clay Conference (MECC), 16-19 September, Dresden, Germany.

NGUYEN-TANH, L., PUSCH, R., KASBOHM, J., HOANG-MINH, T., PHAM-THI, N., FERREIRO MÄHLMANN, R. & KNUTSSON, S. (2017). Kinnekulle K-bentonite mirroring heat impact on the clay mineral composition of buffer clay for isolating high-level radioactive waste in repositories. Session MI-03: Clay mineral reaction progress in very low-grade temperature petrologic studies. XVI International Clay Conference (ICC), 17-21 July, Granada, Spain.

NGUYEN-TANH, L., FERREIRO MÄHLMANN, R., FRITSCHE, J.G., HOANG-MINH, H., PETSCHEICK, R., REISCHMANN, T., NESBOR, H.D. & RUTTMANN, R. (2019): Clay minerals and mineralization of Permian illite in a geothermal drill hole – northern Upper Rhein Graben, Germany. Session B7: Diagenesis and Low- Grade Metamorphism (4th Frey-Kübler Symposium), Abstract Book, p. 471, International Conference on Clay Science and Technology, EUROCLAY, 1-5 July, Paris, France.

NIEVERGELT, P., LINIGER, M., FROITZHEIM, N. & FERREIRO MÄHLMANN, R. (1991): The Turba Mylonite Zone: An Oligocene extensional fault at the Pennine-Austroalpine-Boundary in Eastern Switzerland. Oral presentation at EUG Strasbourg, France - Terra Abstracts, v. **3/1**, p. 248.

PETSCHEICK, R. & FERREIRO MÄHLMANN, R. (1992): Paleogeothermal history of the Northern Calcareous Alps (Western section) - Geodynamic consequences. - ALCAPA meeting, Graz, Terra Nova , v. **4**, Abstract Supplement 2, p. 21.

POTEL, S., FERREIRO MÄHLMANN, R. & FREY, M. (2001): Low grade metamorphism in northern New Caledonia: Evolution of metapelites under HP-LT conditions. - Terra Abstracts, J. of Conference Abstracts, EUG 11, FMF1, Diagenesis and Low-Grade Metamorphism, v. **6/1**, p. 230.

POTEL, S., FERREIRO MÄHLMANN, R., MULLIS, J. & FREY, M. (2002): Evolution de la zone métamorphique à HP-BT en Nouvelle Calédonie septentrionale. Abstract: B 2.6. Métamorphisme HP et exhumation des roches profondes. RST Nantes 2002.

POTEL, S., FERREIRO MÄHLMANN, R. & STERN, W.B. (2004): Use of low-grade metamorphic tools in order to decipher the metamorphic zonation in northern New Caledonia (SW Pacific): implications of phyllosilicate characteristics. RST-GV 2004, RSTGV-A-00371; p.19, Strasbourg.

POTEL, S., CHASSAGNAC, D., LAFFAY, M., MAILLET, M., SARR, A.C., DOUBLIER, M.P. & FERREIRO MÄHLMANN, R. (2014). Low-grade metamorphic study based on Árkai Index and Kübler Index correlation in basins of Southern Vosges (NE France). Session 5: Clay minerals in diagenetic and low temperature metamorphic environments, p. 114. Mid-European Clay Conference (MECC), 16-19 September, Dresden, Germany,

POTEL, S., MAILLET M., SARR, A.C., CHASSAGNAC, D., LAFFAY, M., DOUBLIER, M.P. & FERREIRO MÄHLMANN, R. (2015): Reliability of very low-grade metamorphic methods to decipher basin evolution: case studies from basins of the Southern Vosges (NE France). Session: Third Frey-Kübler symposium: Clay mineral indices in palaeo-geothermal studies, hydrocarbon and geothermal prospection, p. 125. EUROCLAY Edinburgh, Scotland UK, 7th July 2015.

POTEL, S., MAISON, T., TRULLENQUE, G., DOUBLIER, M.P., FERREIRO MÄHLMANN, R., MAILLET M. & SARR, A.C. (2016): Reliability of very low-grade metamorphic methods to decipher basin evolution: case study from the Markstein basin (Southern Vosges, NE France). 25e Réunion des Sciences de la Terre. Thème 2: Bassins, réservoirs et enregistrements sédimentaires - Basins, reservoirs, sedimentary records. Session 2.7: Processus diagénétiques - Diagenetic processes. RST Caen, France.

POTEL, S., MAISON, T., DOUBLIER, M.P. & FERREIRO MÄHLMANN, R. (2017). Illite Indices under low-temperature conditions to decipher complex geodynamic evolutions: A review. Session MI-03: Clay mineral reaction progress in very low-grade temperature petrologic studies. XVI International Clay Conference (ICC), 17-21 July, Granada, Spain.

POTEL, S., MAISON, T., MALIE, P., DOUBLIER, M.P. & FERREIRO MÄHLMANN, R. (2018): Correlation between clay minerals and organic matter; potential source of information for paleo-geothermal evolution under low-grade metamorphic conditions. Session 14.2: Géothermie. 26. Réunion des Sciences de la Terre (RST), p. 673, 22th - 26th October 2017, Lille, France.

POTEL, S. & FERREIRO MÄHLMANN, R. (2022): K-white mica b cell dimension: a complementary clay minerals tool to decipher polyphasic basin evolution. Thematic Session 26 - Clay minerals studies in sedimentary basins predicting geotherms, fluid- and hydrocarbon migration systems. AIPEA XVII International Clay Conference (ICC) 25-29 July, Istanbul, Turcay.

ŠEGVIĆ, B., ŠEŠELJ, L. & FERREIRO MÄHLMANN, R. (2011): Outlines on the composition and manufacture technology of Hellenistic pottery recovered from eastern adriatic (Croatia). Abstract: Archéométrie, Liège.

ŠEGVIĆ, B., ŠEŠELJ, L. & FERREIRO MÄHLMANN, R. (2011): Composition and manufacture technology of Hellenistic fineware recovered from Dalmatian coast (Croatia). EUROCLAY, Antalya.

ŠEGVIĆ, B., UGARKOVIĆ, M., LASKOWSKI, N. & FERREIRO MÄHLMANN, R. (2012): Material characteristics and production technology of Greek pottery manufacturing in the Adriatic – case study of Hellenistic Issa. Abstract: Archäometrie Tübingen.

SCHEUVENS, D., HINDERER, M., FERREIRO MÄHLMANN, R. & WEBER, J. (2005): Natursteinkataster Odenwald – Werksteine aus dem Grund- und Deckgebirge. Abstract: GeoTop 2005, DGG, Geotope und Geoparks – Schlüssel zu nachhaltigem Tourismus und Umweltbildung, Lorsch.

SCHÖNHERR, J., SCHEUVENS, D., THÖNI, M., & FERREIRO MÄHLMANN, R. (2004): Possible shear heating at a basement-cover tectonic contact: The Ortles shear zone (Southern Tyrol/ Italy). RST-GV 2004, RSTGV-A-00276; p.18, Strasbourg.

SCHÖNHERR, J., SCHEUVENS, D., THÖNI, M., & FERREIRO MÄHLMANN, R. (2005): New radiometric data for eo-Alpine thrusting in the western Austroalpine (Southern Tyrol, Italy).- Tectonic Studies Group, Annual meeting 2005.

WEH, M., FERREIRO MÄHLMANN, R. & FROITZHEIM, N. (1996): Strukturelle und metamorphe Diskontinuitäten im Penninikum am Westrand der Ostalpen. - Abstract: 6. Symposium Tektonik-Strukturgeologie-Kristallingeologie, Facultas Universitätsverlag, Salzburg, p. 479-482.

WEH, M., FROITZHEIM, N. & FERREIRO MÄHLMANN, R. (1997): Tectono-metamorphic evolution of Bündnerschiefer in eastern Switzerland - a key to Tertiary subduction and exhumation processes. - Abstract: 3rd Workshop on Alpine Geological Studies, Biella-Oropa (Italy).

ZIMMERMANN, B., HECKER, CH., FERREIRO MÄHLMANN, R. & FROITZHEIM, N. (2000): Tectonometamorphic development of the Middle Penninic Tasna nappe and the North Penninic Bündnerschiefer units in the Engadine window, Switzerland. - Abstract: 17. Schweiz. Tektonikertreffen, Swiss Tectonic Studies Group Meeting, ETH Zürich.

35 Vorträge:

Die Vitrinitreflexion ein Werkzeug zur Bestimmung von Diagenesehöhe und beginnender Metamorphose in polymetamorphen Deckenstrukturen. Ein Beispiel aus den Alpen, RWTH-Aachen, 22. Februar 1994.

Zur Bestimmung von Diagenesehöhe und beginnender Metamorphose – Temperaturgeschichte und Tektogenese des Austroalpins und Südpenninikums in Vorarlberg und Mittelbünden, Universität Tübingen, 18. Mai 1994.

Das Diagenese-Metamorphose-Muster von Vitrinitreflexion und Illit-"Kristallinität" in Mittelbünden und im Oberhalbstein. Vortrag: Freiburg-Basel-Kolloquium, Universität Basel, 3. Februar 1995.

Einflüsse auf Illit-Chemismus und Illit-Kristallinität: Gesteinschemismus, Kohlenwasserstoffanteil, Salinität des Porenwassers, metamorphe Fluide, Deformationsintensität und Verwitterung, Kolloquium, RWTH-Aachen, 2. Februar 1996.

T-t-(P)-"Strain"-Einflüsse auf die Vitrinitreflexion. Arbeitsgemeinschaft für organische Petrologie, Bundesanstalt für Geowissenschaften und Rohstoffe, Hannover, 29. April 1997.

T-t-P-(X)-‘Strain’-Einflüsse auf kohlenpetrographische und tonmineralogische Parameter zur Bestimmung niedriggradiger Metamorphose. Geowissenschaftliches Kolloquium, Universität Frankfurt a.M., 4. November 1998.

Vergleichende Arbeiten zur Deformations- und Diagenese – Metamorphose – Geschichte der Nördlichen Kalkalpen und der Silvrettadecke, Geologisch-Mineralogisches Kolloquium Universität Innsbruck, 21. Januar 1999.

Peak Oil 2010: Ölsande und Umwelt versus Perspektiven der erneuerbaren Energien. Bern-Basel Kolloquium, Universität Bern, 11. November 2000.

Niedrigtemperaturparameter und der Faktor Zeit: Feldbefund, Experiment und Modell. Geowissenschaftliches Kolloquium, Technische Universität Darmstadt, 11. Juni 2001.

Anwendungsmöglichkeiten der Bituminitreflexion. Bern-Basel Kolloquium, Universität Bern, März 2002.

Habilitation Probenvortrag: Das Graphit-Problem: Überlegungen zur natürlichen und synthetischen Graphitbildung. Universität Basel, 23. Mai 2002.

Öffentliche Habilitationsvorlesung “Neue Ansätze in der organischen Petrologie”, Bernoullianum Universität Basel, Hörsaal 223, Basel 10. Januar 2003.

Antrittsvorlesung: Das Graphit-Problem: Überlegungen zur natürlichen und synthetischen Graphitbildung. Technische Universität Darmstadt, 26. Mai 2004.

Graphit: Geowissenschaftliche und technische Nutzung. Vortragsveranstaltung der Odenwald Akademie und der Stadt Michelstadt, Vortrag im Alten Rathaus. 17. Februar 2005.

Überlegungen zur natürlichen und synthetischen Graphitbildung: Fortschritte im Prozeßverständnis und dessen Bedeutung in der geowissenschaftlichen und technischen Nutzung. AKOP Treffen, Deutsches Erdölmuseum Wietze, 16. Juni 2006.

Experimental kinetic study of organic carbonaceous material maturation: An appraisal of pressure and time effects on vitrinite reflectance at 400 °C. (gehalten von Ronan Le Bayon). 74. Sitzung der Arbeitsgemeinschaft für Kohlen- und Organische Petrologie (AKOP). Hessisches Landesmuseum Darmstadt, 15. Juni 2007.

Inkohlungs und pertologische Niedrigtemperaturstudien im Danubischen Fenster (Rumänien). 74. Sitzung der Arbeitsgemeinschaft für Kohlen- und Organische Petrologie (AKOP). Institut für Angewandte Geowissenschaften, Technische Universität Darmstadt, 16. Juni 2007.

Peak Oil, auf dem Weg in die dritte und finale Ölkrise. Energie-Kolloquium, Technische Universität Darmstadt Energy Center, Darmstadt, 3. November 2008.

Peak Oil, auf dem Weg in die dritte und finale Ölkrise. Alternativen für den Kreis Bergstraße. Bunter Löwe, Diefenbachsaal, SPD Ortsverein Zwingenberg, 27. Mai 2009.

Peak Oil - Auf dem Weg in die finale Erdölkrise. Realität und Perspektiven. 76. Sitzung der Arbeitsgemeinschaft für Kohlen- und Organische Petrologie (AKOP). Schloss Freudenstein (Terra Mineralia), Freiberg, 20. Juni 2009.

Living without oil and gas in Eastern Europe. Palaeo- and Geothermal studies in Rumania and Bulgaria. University "St. Kl. Ohridski", Sofia, 9. Oktober 2009.

Wie werden die Konzepte für Energie und Nachhaltigkeit in den EU-Erweiterungsländern angenommen? IMMO-KlimaTag09, ConActivity KG, Villa Bonn der Frankfurter Gesellschaft für Handel, Industrie und Wissenschaft, Frankfurt am Main, 11 November 2009.

The pioneer work of Bernard Kübler and Martin Frey in very low-grad terranes: The paleo-geothermal potential of the Kübler Index – Organic Matter Reflectance correlation. 79. Sitzung der Arbeitsgemeinschaft für Kohlen- und Organische Petrologie (AKOP). RAG Anthrazit Ibbenbüren GmbH, Ideenwerkstatt Nordschacht, Ibbenbüren, 4. Mai 2012.

The pioneer work of Bernard Kübler and Martin Frey in very low-grad terranes: Paleo-geothermal potential of variation in Kübler-Index/organic matter reflectance correlation – a review. Universität Innsbruck. Institut für Geologie & Paläontologie, Innrain 52, Geokolloquium Wintersemester 2012/2013. Innsbruck, 24. Januar 2013.

Applying different clay mineral and organic matter indices to determine rock maturity and grade of diagenesis to incipient metamorphism focused on correlation problems. Institut Polytechnique LaSalle Beauvais, 11. März 2015.

Maturation of Carbonaceous Matter: Methods and Applications. CUSO lecture at the Université De Genève, Section of Earth and Environmental Sciences. Programme doctoral en Sciences des Minéraux. Genf, 19. April 2016.

Peak Oil, limits and perspectives. Pamukkale University, Denizli, Turkey, 7. Juli 2016.

Peak Oil: Did we pass it and what is the future of fossil energy sources. Vortrag im Rahmen der Ringvorlesung "Erdsystemforschung" an der Technischen Universität Darmstadt. 02. Februar 2017 (18:05-19:45 Uhr).

Niedrigtemperaturmethoden zur Bestimmung des Diagenese/Metamorphose-Grades sowie paläogeothermischer Gradienten in Sedimentgesteinen und Meta-Sedimenten. Ruhr-Universität Bochum. 8. Januar 2018.

Coal Petrology & Palaeogeothermics. Society of Economic Geology (SEG) Workshop Munich, Student Chapter TU München. 16 Stunden Gastvorlesung mit Übungen. 8. und 9. Juni 2018.

Vulkanismus auf La Palma – Die Schöne „La Isla Bonita“ und das Biest „Cabeza de Vaca“, Deutsch-Ibero-Amerikanische Gesellschaft e.V. (DIAG), Saalbau Dornbusch. 22. Februar 2022.

Iberische Stelen aus der späten Bronzezeit – Neue Erkenntnisse zur Herkunft, Bearbeitung und Ikonographie, Deutsch-Ibero-Amerikanische Gesellschaft e.V. (DIAG), Saalbau Dornbusch. 29. November 2022.

Iberische Stelen aus der späten Bronzezeit – Anwendung geowissenschaftlicher Methoden in der Archäologie: Baraçal/Sabugal - Beira Alta – Portugal und Capilla – Extremadura – Spanien. Festvortrag, Graduierteneifeier – Sommerfest, IAG TU Darmstadt, 7. Juli 2023.

Which tools did stonemasons from the Late Bronze Age in the Iberian Peninsula use to carve stelae from hard rocks? Project Workshop (DFG-Project No. AR 1305/1-2). The iberian stelae of the final bronze age: iconography, technology and the transfer of knowledge between the atlantic and the mediterranean. Freiburg i.Br., 10. & 11. Oktober 2023.

Petrographical, mineralogical, geochemical and geo-morphological provenience study on granite stelae from the Beira Alta (Portugal). Project Workshop (DFG-Project No. AR 1305/1-2). The iberian stelae of the final bronze age: iconography, technology and the transfer of knowledge between the atlantic and the mediterranean. Freiburg i.Br., 10. & 11. Oktober 2023.

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