

Alessandro Fabbrizio - Educational Activity

Teaching activity at the Faculty of Science, Charles University

Academic year 2019-2020

Advanced Reading course - MG440C28A (winter semester), (0/2) 2 hours/week (course guarantor A. Fabbrizio), 100%. Course for bachelor, master, erasmus, and PhD students.

Microscopy of Rock-forming Minerals MG440C08E (winter semester), (1/2) 3 hours/week (course guarantor A. Fabbrizio), 100%. Course for erasmus students.

Academic year 2018-2019*

Advanced Reading course - MG440C28A (winter semester), (0/2) 2 hours/week (course guarantor A. Fabbrizio), 100%. Course for bachelor, master, erasmus, and PhD students.

Microscopy of Rock-forming Minerals MG440C08E (winter semester), (1/2) 3 hours/week (course guarantor A. Fabbrizio), 100%. Course for erasmus students.

Geological Thermodynamics – MG440C08E (summer semester), (3/2) 5 hours/week (course guarantor A. Fabbrizio), 100%. Course for master, erasmus, and PhD students.

Academic year 2017-2018*

Advanced Reading course - MG440C28A (winter semester), (0/2) 2 hours/week (course guarantor A. Fabbrizio), 100%. Course for bachelor, master, erasmus, and PhD students.

Advanced Reading course - MG440C28B (summer semester), (0/2) 2 hours/week (course guarantor A. Fabbrizio), 100%. Course for bachelor, master, erasmus, and PhD students.

Geological Thermodynamics – MG440C08E (summer semester), (3/2) 5 hours/week (course guarantor A. Fabbrizio), 100%. Course for master, erasmus, and PhD students.

*It should be noted that in the academic years 2017-18 and 2018-19 although I was the guarantor for the Microscopy of Rock-forming minerals course (winter semesters academic years 2017-18), and for the Advanced Reading course (summer semester academic year 2018-2019) these courses did not take place because there were no enrolled students.

Academic year 2016-2017

Advanced Reading course - MG440C28A (winter semester), (0/2) 2 hours/week (course guarantor A. Fabbrizio), 100%. Course for bachelor, master, erasmus, and PhD students.

Microscopy of Rock-forming Minerals MG440C08E (winter semester), (1/2) 3 hours/week (course guarantor S.W. Faryad), 100%. Course for erasmus students.

Advanced Reading course - MG440C28B (summer semester), (0/2) 2 hours/week (course guarantor A. Fabbriozio), 100%. Course for bachelor, master, erasmus, and PhD students.

Geological Thermodynamics – MG440C08E (summer semester), (3/2) 5 hours/week (course guarantor A. Fabbriozio), 100%. Course for master, erasmus, and PhD students.

Teaching activity at Blaise Pascal University, Clermont-Ferrand, France

Academic year 2014-2015

During the summer semester of the academic year 2014-2015, when I was a ClerVolc Fellow at the Laboratoire Magmas et Volcans, I held the course “From Mineral to Rock” for a total of 30 hours. It was a basic microscopy course for bachelor students similar to the Microscopy of Rock-forming Minerals I hold at Charles University. See the attached confirmation letter.

Teaching activity at Camerino University, Camerino, Italy

Academic year 2012-2013

In May 2013 I was invited by prof. Michael Robert Carroll to give a short course (10 hours) for master and PhD students entitled “Isotope Geochemistry” at the Geology Division of Camerino University. See the attached confirmation letter.

Academic years 2002-2003, 2003-2004, 2004-2005.

In the framework of my PhD course (2002-2005) at the Department of Earth Sciences of Camerino University I held the course of “Laboratory of Petrography” (30 hours of teaching per academic year). It was a course for bachelor students similar to the Microscopy of Rock-forming Minerals I hold at Charles University. In addition, during the summer semester of the academic year 2004-2005 I held also the course of “Applied Petrography” (30 hours of teaching). See the attached confirmation letter.

Supervision and co-supervision of students

Since the academic year 2018/2019 I am the supervisor of the PhD student Markéta Jirků enrolled in the PhD course of the Faculty of Science at the Institute of Petrology and Structural Geology. The title of her PhD work is “Behavior of trace elements in apatite: experiments and modelling”.

Since the academic year 2019/2020 I co-supervise the PhD student Jakub Mysliveček, (supervisor Dr Vladislav Rapprich, Czech Geological Survey) in his thesis entitled “Magmatic and post-magmatic processes controlling distribution of selected elements in alkaline volcanic setting”.

Since the academic year 2018/2019 I co-supervise the PhD student Barbara Bonechi (Sapienza University – Rome – Italy, supervisor Assoc. Prof. Mario Gaeta). In the period March-May 2019 I directly supervised Barbara Bonechi during her stay at the Institute of Petrology and Structural Geology to perform analytical work related to her

PhD thesis. Her thesis focuses on the determination of the dynamics of crystallization of anhydrous and hydrous alkaline primitive magmas at deep crustal levels through the experimental calibration of clinopyroxene and amphibole growth and dissolution kinetics. As a result of this co-operation we published in *Lithos* the article “Amphibole growth from a primitive alkaline basalt at 0.8 GPa: time-dependent compositional evolution, growth rate and competition with clinopyroxene”, <https://doi.org/10.1016/j.lithos.2019.105272>, by B. Bonechi, C. Perinelli, M. Gaeta, V. Tecchiato, A. Fabbrizio. See the attached confirmation letter from Assoc. Prof. Mario Gaeta.

In the academic years 2016/2017 and 2017/2018 I co-supervised the PhD student Maierziyaguli Maimaiti (Camerino University – Camerino – Italy, supervisor Prof. Michael Robert Carroll) in the scientific interpretation of her experimental data dealing with monazite solubility in haplogranitic melts and in writing of the article entitled “Experimental study of monazite solubility in haplogranitic melts: a new model for peraluminous and peralkaline melts”. The article authored by M. Maimaiti, A. Fabbrizio et al. has been published in 2019 in the *European Journal of Mineralogy* (vol. 31, pp. 49-59). My important role in this scientific supervision is highlighted by the fact that I am the second author in the authors’ list and that I am the corresponding author. See the attached confirmation letter from Prof. Michael R. Carroll.

In the academic year 2016/2017 I acted as co-supervisor for the bachelor student Lucie Pivovarska (Institute of Petrology and Structural Geology, supervisor Mgr. Václav Špillar, Ph.D.). The title of this thesis was “Experimental study of crystallization kinetics in one-component system” and the candidate successfully defended it on 18/09/2017. Although I was the co-supervisor I had an important role in the accomplishment of this work because the topic of the thesis was an experimental subject and both for the student and for her supervisor it was their first experience in the field of Experimental Petrology. In particular I have given them open access to the Experimental Petrology Laboratory I am developing at the Institute of Petrology and Structural Geology and I have transferred to them my extensive knowledge and experience of experimental and analytical techniques. In detail both the student and her supervisor were trained in the preparation and storage of synthetic starting materials needed to perform the experimental runs, in using the 1-atm high-temperature furnace for conducting the experiments with appropriate cooling rates, in quenching the experimental products and in recovering them, in preparing the run products by embedding in epoxy resin and subsequent polishing for analysis at the SEM and EMPA. In conclusion, on one hand the student was able to defend successfully her thesis. On the other hand, now the Institute of Petrology and Structural Geology has two more people that are able to work independently in the Experimental Petrology Laboratory.

Other pedagogical activity

Since December 2017 member of the examination board for state bachelor’s examinations in the study program of Geology.

Since December 2017 member of the examination board for state master’s and rigorous examinations in the study program of Geology.

Since December 2017 member of the examination board for doctoral state examinations and member of the examination board for the defense of dissertations in the doctoral study program of Geology.

Doc. Mgr. Ondrej Lexa, Ph.D.
Director of the Institute of
Petrology and Structural Geology
PřFUK

08/01/2020 Alessandro Fabbrizio

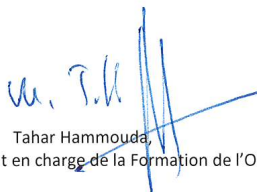
ATTESTATION

Tahar Hammouda, directeur adjoint de l'OPGC, en charge de la formation, atteste par la présente que,

FABBRIZIO Alessandro

a effectué, dans l'année universitaire 2014-2015 et pour le Département des Sciences de la Terre de l'Université Blaise Pascal de Clermont-Ferrand, 30 heures de TP (soit 20 h éq TD) dans l'UE « Du Minéral à la Roche ».

Pour faire valoir ce que de droit



Tahar Hammouda,
Directeur Adjoint en charge de la Formation de l'OPGC



UNIVERSITY
of CAMERINO

28 October 2019 To the Members of the Habilitation Board:

I am writing this letter, at the request of Dr. Alessandro Fabbrizio to confirm teaching activities that he was involved with at Camerino University.

- May 2013, on my invitation, Isotope Geochemistry of short-lived U series isotopes (10 hrs) for PhD and Masters students
- Academic year 2004/05: Laboratory of Petrography (30 hrs, bachelor students) and Applied Petrography (30 hrs, Masters students) -Academic year 2003/04: Laboratory of Petrography (30 hrs, bachelor students)
- Academic year 2002/03 Laboratory of Petrography (30 hrs, bachelor students)

In all of these activities he displayed excellent teaching abilities, was well organized and interacted easily with the students; I was very satisfied with his performance and abilities.

Michael Robert Carroll
Professor

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UNIVERSITY
of CAMERINO

28 October 2019

To the Members of the Habilitation Board:

I am writing this letter, at the request of Dr. Alessandro Fabbrizio to confirm that he acted as co-advisor for PhD student Marziya Maimaiti and had major contributions to interpretations, modelling of data and manuscript writing as presented in our paper published in the European Journal of Mineralogy (Maimaiti, Fabbrizio, et al., 2019, Experimental study of monazite solubility in haplogranitic melts: a new model for peraluminous and peralkaline melts, DOI: 10.1127/ejm/2019/0031-2801. He is also involved in another paper currently in preparation, concerning feldspar crystallization kinetics in pantelleritic melts. From his CV it will be apparent what other petrological-geochemical problems we have worked on together. Please feel free to ask if you wish any additional information/

Michael Robert Carroll
Professor

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Roma 18 December 2019

To the Members of the Habilitation Board

I hereby attest that Dr. Alessandro Fabbrizio acted as co-supervisor for PhD student Barbara Bonechi and that he supervised directly Barbara Bonechi during her stay at Charles University. He had contributions in the writing and revising our article published in Lithos (Bonechi, Perinelli, Gaeta, Tecchiato, Fabbrizio: Amphibole growth from a primitive alkaline basalt at 0.8 GPa: time-dependent compositional evolution, growth rate and competition with clinopyroxene, <https://doi.org/10.1016/j.lithos.2019.105272>). Moreover, he is also involved in two other articles, currently in preparation, concerning the dissolution rate of clinopyroxene in alkaline basalt and the behavior of trace elements in clinopyroxene. Please feel free to contact me if you wish any additional information.

Sincerely yours,

Dr Mario Gaeta