




Vasileios Koulocheris

DATE OF BIRTH:
10/08/1994

CONTACT

Nationality: Greek

Gender: Male

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EDUCATION AND TRAINING

11/2017 – 03/2021 – Greece

Doctoral Diploma in Engineering

National Technical University of Athens

- Doctoral thesis title: *"Thermodynamic modelling and simulation of mercury distribution in natural gas"* (funded by Equinor ASA, Norway)

- Teaching assistance and lab instruction in courses: *Applied Thermodynamics, Chemical Engineering Thermodynamics, Process Development Engineering*

- Co-supervision of diploma theses

10/2012 – 07/2017 – Greece

Diploma in Chemical Engineering

National Technical University of Athens

- Process engineering direction

- Diploma thesis: *"Chemical and phase equilibria of mercury in natural gas"* (in collaboration with Statoil ASA, Norway)

- Diploma grade: 9.22/10 (Excellent)

09/2009 – 07/2012 – Athens, Greece

High School Diploma

Athens College

- Diploma grade: 19.5/20 (Excellent)

LANGUAGE SKILLS

MOTHER TONGUE(S): Greek

OTHER LANGUAGE(S):

English

Listening	Reading	Spoken production	Spoken interaction	Writing
C2	C2	C2	C2	C2

German

Listening	Reading	Spoken production	Spoken interaction	Writing
B2	B2	B2	B2	B2

DIGITAL SKILLS

Microsoft Office / Aspen HYSYS and Aspen Plus / UniSim Design / PROII / FORTRAN 77/90/95 / MATLAB&Simulink / Visual Basic for Application(VBA ExcelAccess)

WORK EXPERIENCE

03/2021 – CURRENT

Postdoc Researcher

Thermodynamics and Transport Phenomena Laboratory

School of Chemical Engineering

National Technical University of Athens

03/2019 – 06/2019 – Trondheim, Norway

Internship

Equinor ASA

- Thermodynamic modelling of mercury chemical & phase equilibria in natural gas
 - Simulation of mercury distribution in natural gas processing plants
- Rotvoll Research & Technology Center, Trondheim, Norway

09/2016 – 10/2016

Internship

ELPEN Pharmaceutical Co. Inc.

- Overview of production
- Calibration/verification of equipment
- Quality control of raw materials, semi-finished and finished products
- Review of legislation
- Participation in the development of a new generic drug

Pikermi, Greece

PROJECTS

01/2021 – CURRENT

Development of a single model for natural gas process simulation

Funded by Equinor ASA, Norway.

10/2020 – 12/2020

Improvement and extension of PhaseOpt

Funded by Equinor ASA, Norway.

10/2017 – 12/2020

Modelling of phase and chemical equilibrium in natural gas systems that contain mercury

Funded by Equinor ASA, Norway.

PUBLICATIONS

● **Calculating the chemical and phase equilibria of mercury in natural gas**

2021

Koulocheris, V., Plakia, A., Louli, V., Panteli, E., Voutsas, E., Fluid Phase Equilibria. (submitted)

● **Modelling of simultaneous chemical and phase equilibria in systems involving non-reactive and reactive azeotropes**

2020

Koulocheris, V., Panteli, M., Petropoulou, E., Louli, V., Voutsas, E., Industrial & Engineering Chemistry Research 59 (18): p. 8836-8847.

● **Modeling of hydrogen vapor-liquid equilibrium with oil & gas components**

2019

Koulocheris, V., Louli, V., Panteli, E., Skouras, S., Voutsas, E., Fluid Phase Equilibria **494**: p. 125-134.

● **Modeling of elemental mercury solubility in natural gas components**

2018

Koulocheris, V., Louli, V., Panteli, E., Skouras, S., Voutsas, E., Fuel **233**: p. 558-564.

CONFERENCES AND SEMINARS

05/07/2021 – 09/07/2021 > – Paris, France

31st European Symposium on Applied Thermodynamics

Koulocheris, V., Louli, V., Panteli, E., Voutsas, E., "Chemical and phase equilibria of mercury in natural gas with the UMR-PRU model". (oral presentation - accepted)

22/10/2019 – 23/10/2019 > – Amsterdam, The Netherlands

CAPE-OPEN Annual Meeting 2019

Koulocheris, V., Novak, N., Plakia, A., Petropoulou, E., Boukouvalas, Ch., Louli, V., Pappa, G., Voutsas, E., *UMR-PRU thermodynamic model: application to natural gas processing. (oral presentation)*

29/05/2019 – 31/05/2019 > – Athens, Greece

12th Panhellenic Scientific Conference on Chemical Engineering

Petropoulou, E., Novak, N., Koulocheris, V., Louli, V., Pappa, G., Boukouvalas, Ch., Voutsas, E., *Thermodynamic modelling and simulation of natural gas processes. (poster)*

10/06/2018 – 13/06/2018 > – Prague, Czech Republic

30th European Symposium on Applied Thermodynamics

Koulocheris, V., Louli, V., Panteli, E., Skouras, S., Voutsas, E., *Predicting the solubility of mercury in hydrocarbons, compressed gases, water and methanol with the UMR-PRU model. (poster)*

18/05/2017 – 21/05/2017 > – Bucharest, Romania

29th European Symposium on Applied Thermodynamics

Koulocheris, V., Louli, V., Voutsas, E., *Phase equilibria of mercury in natural gas using UMR-PRU model. (poster)*

25/09/2017 – 29/09/2017 > – Athens, Greece

Dangerous Goods Safety Advisor training

School of Mechanical Engineering, National Technical University of Athens.

14/08/2017 – 25/08/2017 > – Lyngby, Denmark

Advanced course on thermodynamic models: Fundamentals & Computational Aspects

Technical University of Denmark

NETWORKS AND MEMBERSHIPS

19/10/2017 – CURRENT

Dangerous Goods Safety Advisor

Certificate Number: GR17100080

10/2017 – CURRENT

Member of the Technical Chamber of Greece

Registration Number: 141167

HONOURS AND AWARDS

03/2021

"Thomaideio" award for scientific publications in 2018 – National Technical University of Athens

18/09/2019

"Zoe Soutsou" Scholarship for doctoral studies during academic year 2017-18 – Ministry of Education/Ministry of Finance

Graduated University at 4th place among 126 students (top 3%)

01/2019

"Thomaideio" award for student excellence during academic year 2016-17 – National Technical University of Athens

07/2012

Magna cum laude graduation from High School – Athens College