

MICHAEL A. VLACHOGIANNIS

Personal

Languages: Greek (native), English (Proficiency Level)
Current Address: Dr. Vlachogiannis Michael
Professor
Dept. of Mechanical Engineering, Tech. Institute of Larisa
Larisa, 41110
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Education

2001-2003 Post-Doctoral Associate
University of Illinois at Urbana-Champaign, Dept of Chemical Engineering
“*Polymer Drag Reduction on Turbulence*”, Supervisor: Dr. T.J. Hanratty,
1996 - 2001 Doctor of Philosophy in Mechanical & Industrial Engineering
GPA: Excellent
University of Thessaly, Dept. of Mechanical & Industrial Engineering
“*Experimental Investigation of the film flow along a flat and a corrugated wall*”
Supervisor: Dr. Vasilis Bontozoglou
1991-1996 B.S. in Mechanical & Industrial Engineering
GPA: 8.77/10 (1st)
University of Thessaly, Dept. of Mechanical & Industrial Engineering
“*Experimental Study of Laser Welds*”, Advisor: Dr. Gregory Haidemenopoulos

Professional Experience

Academia

2013 - 2015 **Vice Rector of Research and Development**
Technological Educational Institute of Thessaly (Larissa)
2013 - Present **Erasmus Coordinator**
2012 - Present **Professor**
Department of Mechanical Engineering, Technological Educational Institute of
Larissa
Laboratory of Fluid Mechanics & Turbomachinery
2009 - 2013 **Head of the Department**
Department of Mechanical Engineering, Technological Educational Institute of
Larissa
2007 - 2012 **Associate Professor**
Department of Mechanical Engineering, Technological Educational Institute of
Larissa
Laboratory of Fluid Mechanics & Turbomachinery
2004 - 2012 **Lecturer**, Instructor (P.D. 407/80)
University of Thessaly, Dept. of Mechanical & Industrial Engineering
▪ Teaching: Thermal Process Equipment, Heat Transfer II & Solar Energy
2003 - 2012 **Research Associate**
University of Thessaly, Laboratory of Transport Processes & Process
Equipment
▪ Separation processes equipment & Heat Exchanger Design
▪ Design of Biomass Furnace for charcoal production

- Operating and Manufacturing of Steam Boilers and Cooling Towers
- Aerospace Applications of Magnesium Alloys, AEROMAG

2001 - 2003

Post-doctoral Associate

Univ. of Illinois at Urbana-Champaign, Dept. of Chemical Engineering
«Experimental Studies on the Physics and Technology of Polymer», Drag-Reduction, Defense Advanced Research Projects Agency, Microsystems Technology Office, Friction Drag Technologies DARPA Order No. K042/05/24, Issued by DARPA/CMO under Contract MDA972-01-C-0029, (3/19/2001 to 12/18/2003)

1996 - 2001

Research and Teaching Assistant

University of Thessaly, Dept. of Mechanical & Industrial Engineering

- Desalination by mechanical compression of humid air
- Characterization of trapped hydrogen in exfoliation corroded aluminum alloy 2024

Industry - Services

2015 - Present

Hydroclave Hellas S.A. - Sterilization of infectious medical waste.

General Manager

Selected Accomplishments: 40% reduction of the consumption of Natural Gas through the improvement of the operation of a Steam Boiler (800kW) in series with a Steam Generator (2000kW). 70% reduction of the water consumption through the design of a new cooling system.

2009 - Present

Benaki Phytopathological Institute

EcoPest - Sustainable Use of Pesticides in a vulnerable ecosystem: Application of innovative agricultural technologies for minimization of contaminants from agriculture Spray drift control nozzles, Development of Prototype System for the control of spraying machinery

2009 - 2013

Safety Engineer Services

Coca - Cola S.A. (Volos), MAKRO Cash & Carry S.A., Intersport S.A., SevenSpots S.A., MEDISPESS.A.

2006 - 2008

Mechanical Engineer at TEMKA S.A. -Steel Construction Company

Production Manager

Programming of Machines (Messer, Ficep, Kaltenbach, Vernet, e.t.c.), Responsible for the Assembly and Welding Dept.

Director of Maintenance

Selected Projects: CERN - Lifting Beam, SIDMA- Steel Plant, Main Field Mine Belt Conveyor B=1800 Modification, Manufacturing of Drive Heads and Return Stations of Belt conveyors, Wet Flue Gas Desulphurization of Megalopolis PPC - SES Unit III

Selected Accomplishments: Increasing the oxyfuel cutting speed (25%), Welding of 230mm plate (supports for the Hydroelectric Power Plant H.E.P. ILARION)

2005 - 2006

MIRTEC S.A. - (Metallurgical Industrial Research & Technological Development Center)

Mechanical Engineer

- Director of the R & D Dept.
- Director of the Materials Testing Facilities (Tensile Strength, e.t.c)

2004 - 2005

VIOHALCO Group

Mechanical Engineer

- Steel & Electromechanical Constructions
 - Site Manager (25 employees)
- 1995 **Internship**
STALCO S.A (Mechanical Construction Company), 1 month
- 1993 - 1996 **Part Time (during the undergraduate studies)**
MIRTEC (Metallurgical Industrial Research & Technological Development Center),
- 1992 **Internship**
Nissan (Teocar) 3 months, Internship

Research activities and participation in research projects (in Greek)

Principal investigator

- **Επιστημονικός Συνεργάτης.** «Δίκτυο υποστήριξης ενοποιημένων υπηρεσιών στο Παν/μιο Θεσσαλίας» (Υπουργείο Παιδείας-ΕΠΕΑΕΚ). Επιστημονικός Υπεύθυνος: Σταμόπουλος Δ. (20/10/1998 έως 28/12/1998), 100.000,00 €
- **Βασικός Ερευνητής.** «Εξεργασιακή Βελτιστοποίηση συστημάτων θέρμανσης-ψύξης με αντλίες θερμότητας» (ΓΓΕΤ-ΠΑΒΕ). Επιστημονικός Υπεύθυνος: Δρ. Σταματέλλος Α. (1/5/1997 έως 31/12/1998), 29.347,03 €
- **Βασικός Ερευνητής.** «Πρότυπη συσκευή αφαλάτωσης θαλασσινού νερού με επανασυμπίεση υγρού αέρα» (Επιτροπή Ερευνών). Επιστημονικός Υπεύθυνος: Δρ. Μποντόζογλου Β. (1/1/1997 έως 30/4/1997), 3.000,00 €
- **Επιστημονικός Συνεργάτης.** «Προγράμματα Σπουδών-Συγγράματα Τμήματος Μηχανολόγων» (Υπουργείο Παιδείας-ΕΠΕΑΕΚ). Επιστημονικός Υπεύθυνος: Δρ. Αράβας Ν. (1/4/1998 έως 31/12/1999), 249.449,74 €
- **Επιστημονικός Συνεργάτης.** «Ανακύκλωση υλικών- Σεμινάριο κατάρτισης στα πλαίσια του Κοινωνικού αποκλεισμού». Επιστημονικός Υπεύθυνος: Οικονόμου Δ. (1/11/1997 έως 31/12/1997)
- **Επιστημονικός Συνεργάτης.** «Διαχείριση αστικών και υγρών αποβλήτων». Επιστημονικός Υπεύθυνος: Οικονόμου Δ. (15/2/1999 έως 8/4/1999)
- **Επιστημονικός Συνεργάτης.** «Διάβρωση και ψαθυροποίηση υδρογόνου αεροπορικών κραμάτων αλουμινίου» (ΓΓΕΤ). Επιστημονικός Υπεύθυνος: Δρ. Χαιδεμένοπουλος Γρ. (1/2/2000 έως 31/7/2001), 170.212,77 €
- **Επιστημονικός Συνεργάτης.** «Σχεδιασμός κλιβάνου βιομάζας» (ΓΓΕΤ-ΠΑΒΕ). Επιστημονικός Υπεύθυνος: Δρ. Μποντόζογλου Β. (1/1/2003 έως 31/12/2003), 23.477,62 €
- **Βασικός Ερευνητής.** «Ιδρυματικό Έργο ΕΠΕΑΕΚ II ΠΥΘΑΓΟΡΑΣ: Ενίσχυση Ερευνητικών Ομάδων στα Πανεπιστήμια» (Υπουργείο Παιδείας-ΕΠΕΑΕΚ). Επιστημονικός Υπεύθυνος: Δρ. Μποντόζογλου Β. (1/9/2004 έως 31/3/2005), 200.000,00 €
- **Επιστημονικός Συνεργάτης.** «Αεροπορικές Εφαρμογές Ελατών Κραμάτων Μαγνησίου» (Ευρωπαϊκή Ένωση). Επιστημονικός Υπεύθυνος: Δρ. Χαιδεμένοπουλος Γρ. (1/3/2005 έως 31/12/2006), 205.000,00 €
- **Βασικός Ερευνητής.** «Experimental Studies on the Physics and Technology of Polymer», Drag-Reduction Defense Advanced Research Projects Agency, Microsystems Technology Office, Friction Drag Technologies DARPA Order No. K042/05/24, Issued by DARPA/CMO under Contract MDA972-01-C-0029, (3/19/2001 to 12/18/2003), \$400.000
- **Επιστημονικός Συνεργάτης.** «Εφαρμογή ηλεκτρονικής επεξεργασίας εικόνων φύλλων φωτός laser για τον έλεγχο παραμέτρων σχεδιασμού αναδευτήρων διφασικών μιγμάτων και ψεκαστήρων νερού» (ΑΡΧΙΜΗΔΗΣ Ι). Επιστημονικός Υπεύθυνος: Δρ. Τσιρίκογλου Θ.. (Σεπ/2004 έως Δεκ/2007)
- **Βασικός Ερευνητής.** «Thessalytex: Κοινοπραξία έρευνας και τεχνολογικής ανάπτυξης στον τομέα της κλωστουφαντουργίας». Κατασκευή πρωτότυπης δριστελάς εντός του εργοστασίου της ΒΙΟΚΑΡΠΕΤ Α.Ε.
- **Επιστημονικός Συνεργάτης.** «Multi-scale complex fluid flows and interfacial phenomena - 'MULTIFLOW'», που χρηματοδοτείται στο πλαίσιο της δράσης «Marie Curie: Initial Training Networks» του Ευρωπαϊκού προγράμματος «People» (506.980€).

Scientific Responsible

Τίτλος	Συνολικός Προϋπολογισμός	Πρόγραμμα	Ημ. Έναρξης	Ημ. Λήξης
ΜΠΕΝΑΚΕΙΟ ΦΥΤΟΠΑΘΟΛΟΓΙΚΟ ΙΝΣΤΙΤΟΥΤΟ	53.845,00	ΜΠΕΝΑΚΕΙΟ ΦΥΤΟΠΑΘΟΛΟΓΙΚΟ ΙΝΣΤΙΤΟΥΤΟ	19/11/2009	19/08/2010
ΒΕΛΤΙΣΤΟΠΟΙΗΣΗ ΒΑΦΗΣ ΞΥΛΙΝΩΝ ΕΠΙΦΑΝΕΙΩΝ ΜΕ ΤΗΝ ΧΡΗΣΗ ΟΠΤΙΚΩΝ ΜΕΘΟΔΩΝ	8.610,00	ΚΟΥΠΟΝΙΑ ΚΑΙΝΟΤΟΜΙΑΣ / ΠΡΑΚΤΙΚΟ 45 05-05-2009	02/11/2010	02/03/2011
ΜΕΛΕΤΗ ΚΑΙ ΣΧΕΔΙΑΣΜΟΣ ΙΔΙΟΣΥΣΚΕΥΗΣ ΜΕΤΡΗΣΗΣ ΤΟΥ ΣΥΝΤΕΛΕΣΤΗ ΘΕΡΜΟΠΕΡΑΤΟΤΗΤΑΣ (35868052-01-000245)	8.610,00	ΚΟΥΠΟΝΙΑ ΚΑΙΝΟΤΟΜΙΑΣ / ΠΡΑΚΤΙΚΟ 47 26-05-2009	02/11/2010	02/03/2011
Πρόγραμμα εκπαίδευσης Ενεργειακών επιθεωρητών κτιρίων και εγκαταστάσεων ΛΑΡΙΣΑ ΤΜΗΜΑ 1	23.690,00	ΕΝΕΡΓΕΙΑΚΟΙ ΕΠΙΘΕΩΡΗΤΕΣ - Ι.Δ.Β.Ε.	14/01/2012	30/10/2013
Πρόγραμμα εκπαίδευσης Ενεργειακών επιθεωρητών κτιρίων και εγκαταστάσεων ΛΑΡΙΣΑ ΤΜΗΜΑ 2	17.143,00	ΕΝΕΡΓΕΙΑΚΟΙ ΕΠΙΘΕΩΡΗΤΕΣ - Ι.Δ.Β.Ε.	26/04/2012	14/07/2012
Πρόγραμμα εκπαίδευσης Ενεργειακών επιθεωρητών κτιρίων και εγκαταστάσεων ΤΡΙΚΑΛΑ	12.241,00	ΕΝΕΡΓΕΙΑΚΟΙ ΕΠΙΘΕΩΡΗΤΕΣ - Ι.Δ.Β.Ε.	02/05/2012	14/07/2012
Πρόγραμμα εκπαίδευσης Ενεργειακών επιθεωρητών κτιρίων και εγκαταστάσεων ΚΑΡΔΙΤΣΑ	10.710,00	ΕΝΕΡΓΕΙΑΚΟΙ ΕΠΙΘΕΩΡΗΤΕΣ - Ι.Δ.Β.Ε.	02/05/2012	14/07/2012
ΕΝΕΡΓΕΙΑΚΟΙ ΕΠΙΘΕΩΡΗΤΕΣ ΛΑΡΙΣΑ 3	20.315,00	ΕΝΕΡΓΕΙΑΚΟΙ ΕΠΙΘΕΩΡΗΤΕΣ - Ι.Δ.Β.Ε.	01/10/2012	30/11/2012
ΕΝΕΡΓΕΙΑΚΟΙ ΕΠΙΘΕΩΡΗΤΕΣ ΛΑΡΙΣΑ 4	11.272,00	ΕΝΕΡΓΕΙΑΚΟΙ ΕΠΙΘΕΩΡΗΤΕΣ - Ι.Δ.Β.Ε.	04/12/2012	30/05/2013
ΕΝΕΡΓΕΙΑΚΟΙ ΕΠΙΘΕΩΡΗΤΕΣ ΤΡΙΚΑΛΑ 2	2.550,00	ΕΝΕΡΓΕΙΑΚΟΙ ΕΠΙΘΕΩΡΗΤΕΣ - Ι.Δ.Β.Ε.	15/04/2013	27/04/2013
ΕΝΕΡΓΕΙΑΚΟΙ ΕΠΙΘΕΩΡΗΤΕΣ ΛΑΡΙΣΑ 5	4.800,00	ΕΝΕΡΓΕΙΑΚΟΙ ΕΠΙΘΕΩΡΗΤΕΣ - Ι.Δ.Β.Ε.	18/04/2013	16/05/2013
Εργαστηριακός έλεγχος καλής λειτουργίας μετρητικών οργάνων, κανονικοποίηση και προκαταρκτικά πειράματα μέτρησης των μεταβολών της θερμοκρασίας στην Πλάκα Θερμοκρασιακής Κλίσης	9.500,00	ΕΡΕΥΝΗΤΙΚΑ ΠΡΟΓΡΑΜΜΑΤΑ / ΣΥΝΕΡΓΑΣΙΑΣ ΜΕ ΦΟΡΕΙΣ	21/05/2013	20/01/2014
LLP/ERASMUS 2013-2014 Κινητικότητα Φοιτητών & Προσωπικού	257.890,73	ERASMUS - Ι.Κ.Υ.	01/06/2013	30/10/2014
ΤΟΠΣΑ	5.563,80	Ε.Σ.Π.Α	01/07/2013	30/11/2015
ΕΝΕΡΓΕΙΑΚΟΙ 6ος ΚΥΚΛΟΣ	17.700,00	ΕΝΕΡΓΕΙΑΚΟΙ ΕΠΙΘΕΩΡΗΤΕΣ - Ι.Δ.Β.Ε.	07/10/2013	21/11/2013
ΕΝΕΡΓΕΙΑΚΟΙ 7ος ΚΥΚΛΟΣ	8.840,00	ΕΝΕΡΓΕΙΑΚΟΙ ΕΠΙΘΕΩΡΗΤΕΣ - Ι.Δ.Β.Ε.	09/12/2013	04/02/2014
Διαχείριση υπολοίπων των κύκλων εκπ/σης Ενεργειακών Επιθεωρητών	4.953,54	ΕΝΕΡΓΕΙΑΚΟΙ ΕΠΙΘΕΩΡΗΤΕΣ - Ι.Δ.Β.Ε.	16/01/2014	
ΕΝΕΡΓΕΙΑΚΟΙ 8ος ΚΥΚΛΟΣ	8.650,00	ΕΝΕΡΓΕΙΑΚΟΙ ΕΠΙΘΕΩΡΗΤΕΣ - Ι.Δ.Β.Ε.	04/03/2014	15/04/2014
ΣΥΜΒΑΣΗ ΠΑΡΟΧΗΣ ΥΠΗΡΕΣΙΑΣ ΓΙΑ ΤΗΝ ΕΠΙΜΟΡΦΩΣΗ ΜΕΛΩΝ ΚΑΙ ΓΙΑ ΤΗ ΔΙΕΞΑΓΩΓΗ ΕΞΕΤΑΣΕΩΝ ΤΕΧΝΙΚΩΝ ΕΠΑΓΓΕΛΜΑΤΩΝ	23.003,10	ΕΡΕΥΝΗΤΙΚΑ ΠΡΟΓΡΑΜΜΑΤΑ / ΣΥΝΕΡΓΑΣΙΑΣ ΜΕ ΦΟΡΕΙΣ	10/03/2014	31/12/2015
Πρόγραμμα εκπαίδευσης Ενεργειακών επιθεωρητών κτιρίων και εγκαταστάσεων ΛΑΡΙΣΑ ΚΥΚΛΟΣ 9	7.900,00	ΕΝΕΡΓΕΙΑΚΟΙ ΕΠΙΘΕΩΡΗΤΕΣ - Ι.Δ.Β.Ε.	29/05/2014	10/07/2014
ERASMUS+ Κινητικότητα Φοιτητών & Προσωπικού 2014-2016	261.101,02	ERASMUS - Ι.Κ.Υ.	01/06/2014	31/05/2016
ΕΝΕΡΓΕΙΑΚΟΙ ΤΡΙΚΑΛΑ 3ος	3000,00	ΕΝΕΡΓΕΙΑΚΟΙ ΕΠΙΘΕΩΡΗΤΕΣ - Ι.Δ.Β.Ε.	01/07/2014	12/07/2014
Μελέτη πραγματογνωμοσύνης για το ατύχημα στο μηχάνημα H100 της Hydroclave - Hellas AE	972,20	ΕΡΕΥΝΗΤΙΚΑ ΠΡΟΓΡΑΜΜΑΤΑ / ΕΡΕΥΝΗΤΙΚΑ ΣΥΝΕΡΓΑΣΙΑΣ ΜΕ ΕΤΑΙΡΕΙΕΣ	09/09/2014	01/10/2014
Πρόγραμμα εκπαίδευσης Ενεργειακών επιθεωρητών κτιρίων και εγκαταστάσεων ΛΑΡΙΣΑ κύκλος 10ος	3.400,00	ΕΝΕΡΓΕΙΑΚΟΙ ΕΠΙΘΕΩΡΗΤΕΣ - Ι.Δ.Β.Ε.	06/10/2014	30/10/2014
Πρόγραμμα εκπαίδευσης Ενεργειακών επιθεωρητών κτιρίων και εγκαταστάσεων ΛΑΡΙΣΑ κύκλος 11ος	3.635,00	ΕΝΕΡΓΕΙΑΚΟΙ ΕΠΙΘΕΩΡΗΤΕΣ - Ι.Δ.Β.Ε.	23/03/2015	20/05/2015

Σύγχρονες Τεχνολογίες Ανανεώσιμων πηγών ενέργειας	66.105,13	Π.Ε.Γ.Α	28/05/2015	31/10/2015
Erasmus+ KA107 / Κινητικότητα μεταξύ Χωρών του προγράμματος και Χωρών Εταίρων 2015 -2017	17.750,00	ERASMUS - I.K.Y.	01/06/2015	31/05/2017
ERASMUS+ Κινητικότητα Φοιτητών & Προσωπικού 2015-2017	263.594,71	ERASMUS - I.K.Y.	01/06/2015	31/05/2017
Παροχή συμβουλευτικών υπηρεσιών (εκπόνηση μελέτης για τα συστήματα ψύξης θέρμανσης και ύδρευσης) στο Κλειστό Γυμναστήριο Νεάπολης (ΕΑΚΛ)	7.380,00	ΕΡΕΥΝΗΤΙΚΑ ΠΡΟΓΡΑΜΜΑΤΑ / ΣΥΝΕΡΓΑΣΙΑΣ ΜΕ ΦΟΡΕΙΣ	26/11/2015	30/05/2016
Πρόγραμμα εκπαίδευσης Ενεργειακών επιθεωρητών κτιρίων και εγκαταστάσεων ΛΑΡΙΣΑ κύκλος 12ος	6.310,00	ΕΝΕΡΓΕΙΑΚΟΙ ΕΠΙΘΕΩΡΗΤΕΣ - Ι.Δ.Β.Ε.	01/03/2016	21/03/2016
Πρόγραμμα εκπαίδευσης Ενεργειακών επιθεωρητών κτιρίων και εγκαταστάσεων Τρίκαλα 4ος κύκλος	2.500,00	ΕΝΕΡΓΕΙΑΚΟΙ ΕΠΙΘΕΩΡΗΤΕΣ - Ι.Δ.Β.Ε.	04/04/2016	20/04/2016

Teaching Experience

University of Thessaly

Thermal Process Equipment (Heat Exchangers, Cooling Towers, etc)
Heat Transfer
Transport Processes
Industrial Pollution Abatement Technology

Technological Educational Institute of Larissa

Fluid Mechanics
Turbo machinery
Thermal Process Equipment (Heat Exchangers, Cooling Towers, etc)

Industrial Training (under invitation)

Safety, Health and Environment (Hellenic Halyvourgia, SOVEL, EPSA, HDVS, ARTENIUS, IMAS, Loulis Mills, SYRMA)
Turbo Machinery Maintenance (MOTOR OIL)
Preventive Maintenance (PINDOS APSI)

Better Training for Safer Food (BTSF) - Safe use / application equipment

Organized by Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

- Use of plant protection product application equipment (e.g. sprayers, including hand-held equipment) and its maintenance, required technical checks of sprayers, ways to improve spray quality.
- Consideration of available and new standards for machinery inspection;
- Preparing plant protection product application equipment for work, including calibration, and operation with minimum risks;
- Technical check of sprayers, calibration of plant protection product application equipment, ways to improve application quality (sprayers; sowing of treated seeds, etc);

A 24 month training programme with the objective to support the sustainable use of plant protection products in the EU. The training is mainly to be held for officials from EU Member States (MS), a limited number of participants from non-EU countries from potential candidate countries (CC), and participants from EFTA/EEA countries under the 'Better Training for Safer Food' Initiative.

Awards & Honors

- 1996 National Scholarship Foundation of Greece, Best Undergraduate ranking: Overall GPA: 8.77/10 (1st)
- 1998 National Scholarship Foundation of Greece, 1997-2000, full PhD funding, Panhellenic Examination in 4 courses. Overall GPA: 15.27/20 (1st)

- 2003 Honored as “Distinguished New Scientist” from the Greek Department of Defense (7/3/2003)
- 2004 National Scholarship Foundation of Greece, Post-Doctoral Scholarship

COMPUTING SKILLS

Operating systems	Windows (95, 98, NT, 2000,XP), UNIX, DOS
Programming	Fortran, Visual Basic, Mathematica, MatLab, C++
Special Engineering	PIV, LDV, Data Acquisition, Digital Image Processing MS Office, AutoCad

PUBLICATIONS IN REFERRED JOURNALS

1. **M. Vlachogiannis**, A.D. Zervaki& G. N. Haidemenopoulos, 1998 A Macro - and Micro - Structural Study of Laser Welds in D36 Ship Steel, Tech. Chron. Sci. J. TGG, V, No 1-2.
2. **M. Vlachogiannis**, V. Bontozoglou, Ch. Georgalas& G. Litinas 1999 Desalination by mechanical compression of humid air. Desalination, 122, 35-42. (19)
3. **M. Vlachogiannis**& V. Bontozoglou 2001 Observations of solitary wave dynamics of film flows. J. Fluid Mech., 435, 191-215. (76)
4. **M. Vlachogiannis**& V. Bontozoglou 2002 Experiments on laminar film flow along a corrugated wall. J. Fluid Mech., 457, 133-156. (102)
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