

## ΒΙΟΓΡΑΦΙΚΟ ΣΗΜΕΙΩΜΑ

<b>Όνομα</b>	<b>Αλκιβιάδης Χ. Παγιατάκης</b>
<b>Υπηκοότητα</b>	Ελληνική
<b>Ημερομ. γεννήσεως</b>	22 Αυγούστου, 1945, Αθήνα
<b>Οικογενειακή κατάσταση</b>	Έγγαμος. Τρία τέκνα (δύο γιοι και μία κόρη).
<b>Παρούσα θέση</b>	
17/7/06-παρόν	Πρόεδρος του ΔΣ του ΙΤΕ και Διευθυντής της ΚΔ του ΙΤΕ.  (Προεδρεύων του ΙΤΕ: 3-6/05. Διευθύνων της ΚΔ και Πρόεδρος του ΙΤΕ: 6/05-16/7/05)
1/1999-7/2006	Διευθυντής, ΙΤΕ/ΕΙΧΗΜΥΘ
6/1981-παρόν	Καθηγητής, Τμήμα Χημικών Μηχανικών, Πανεπιστήμιο Πατρών
1991-παρόν	Πρόεδρος του Δικτύου ΠΡΑΞΗ ΚΠ
1995-παρόν	Διευθυντής του Innovation Relay Centre HELP FORWARD
<b>Διεύθυνση γραφείου</b>	Τμήμα Χημικών Μηχανικών Πανεπιστήμιο Πατρών, 265 04 Πάτρα Τηλ.: (2610) 997 574, Fax: (2610) 990 328 e-mail: <a href="mailto:acp@chemeng.upatras.gr">acp@chemeng.upatras.gr</a>  Γραφείο Διευθυντή, ΙΤΕ/ΕΙΧΗΜΥΘ Τ.Θ. 1414 Οδός Σταδίου, Πλατάνι, 265 00 Πάτρα Τηλ.: (2610) 965 301, Fax: (2610) 990 987 e-mail: <a href="mailto:acp@iceht.forth.gr">acp@iceht.forth.gr</a>
<b>Προηγούμενες θέσεις</b>	
2000–3/05	Αναπληρωτής Πρόεδρος ΙΤΕ
9/80-6/81	Professor of Chemical Engineering, University of Houston, Houston, Texas, USA
9/77-8/80	Associate Professor of Chemical Engineering, University of Houston, Houston, Texas, USA
9/74-8/77	Assistant Professor of Chemical Engineering, University of Houston, Houston, Texas, USA
6/73-8/74	Research Associate,

1/73-6/73

Brunswick Corp., Skokie, Illinois, USA  
Postdoctoral Fellow,  
Dept. of Chem. Eng. and Materials Science,  
Syracuse University, Syracuse, NY, USA

***Πανεπιστημιακές σπουδές***

9/68-1/73

Ph.D. στη Χημική Μηχανική  
Syracuse University, Syracuse, NY, USA

9/63-6/68

Δίπλωμα Χημικού Μηχανικού,  
Εθνικό Μετσόβιο Πολυτεχνείο

***Διδαχθέντα προπτυχιακά  
μαθήματα***

Ροή Ρευστών  
Φαινόμενα Μεταφοράς  
Διεργασίες Χημικής Μηχανικής I & II  
Φυσικές Διεργασίες I, II & III  
Εργαστήριο Χημικής Μηχανικής I & II  
Στατιστική και Θεωρία Σφαλμάτων  
Θεωρητικά Μοντέλα και Εξομοιωτές Διεργασιών  
Διεργασίες Διαχωρισμού σε Πορώδη Μέσα  
Αιωρήματα και Κolloειδή

***Διδαχθέντα μεταπτυχιακά  
μαθήματα***

Ροή Ρευστών  
Φαινόμενα Μεταφοράς  
Επιστήμη Συστημάτων Σωματιδίων-Ρευστών  
Φαινόμενα Μεταφοράς σε Πορώδη Μέσα  
Ειδικά Κεφάλαια Φαινομένων Μεταφοράς  
Φυσικοχημεία και Μηχανική Συστημάτων Στερεών  
και Ρευστών

***Πανεπιστημιακά βιβλία***

Ροή Ρευστών  
Φαινόμενα Μεταφοράς

***Περιοχές ερευνητικού  
ενδιαφέροντος***

Φαινόμενα μεταφοράς μάζας και ενέργειας /  
Φυσικοχημική υδροδυναμική / Ανάλυση και  
προτυποποίηση πορωδών μέσων / Σωματιδιακά  
συστήματα και κolloειδή αιωρήματα / Βελτιωμένη  
απόληψη πετρελαίου / Διήθηση αερίων και υγρών /  
Καθαρισμός υγρών και αερίων αποβλήτων /  
Μέθοδοι διαχωρισμού / Μόλυνση του υπεδάφους  
από υγρούς οργανικούς ρύπους: εκτίμηση του  
εύρους της διασποράς (λαμβανομένης υπόψη της  
φυσικής εξασθενήσεως) και των επιπτώσεων στο  
περιβάλλον καθώς και μέθοδοι περιορισμού και  
καθαρισμού./ Ιεραρχική προσομοίωση της  
αναπτύξεως βιοφίλμ.

<i>Επίβλεψη μεταπτυχιακών σπουδαστών</i>	18 PhD & 10 MS (καθώς και 5 Ph.D. σε εξέλιξη) (Παράρτημα Α)
<i>Δημοσιεύσεις σε διεθνή επιστημονικά περιοδικά με κριτές</i>	101 (Παράρτημα Β)
<i>Δημοσιεύσεις σε βιβλία</i>	14 (Παράρτημα Γ)
<i>Δημοσιεύσεις σε πρακτικά διεθνών επιστημονικών συνεδρίων</i>	43 (Παράρτημα Δ)
<i>Παρουσιάσεις σε επιστημονικά συνέδρια</i>	126 (Παράρτημα Ε)
<i>Επιστημονικά σεμινάρια</i>	68 (Παράρτημα ΣΤ)
<i>Συμμετοχή στην οργάνωση συνεδρίων</i>	23 (Παράρτημα Ζ)
<i>Δείκτης Αναφορών (Νοέμβριος 2007)</i>	~ <b>2040</b> (h-factor 27) (χωρίς αυτοαναφορές: πηγή Web of Science) Επιπλέον, αρκετές αναφορές σε διάφορα επιστημονικά συγγράμματα. (Παράρτημα Η).
<i>Χρηματοδότηση Έρευνας</i>	58 χρηματοδοτημένα έργα Ε&ΤΑ (Παράρτημα Θ)
<i>Χρηματοδότηση άλλων έργων</i>	26 Έργα για τη Διασύνδεση Έρευνας και Παραγωγής καθώς και για τη Μεταφορά Τεχνολογίας μέσω του Δικτύου ΠΡΑΞΗ και του Innovation Relay Centre HELP-FORWARD. (Παράρτημα Ι)
<i>Ιδιαίτερες συνεισφορές</i>	1981- Σημαντικός ρόλος στην ανάπτυξη του Τμ. Χημικών Μηχανικών του Παν. Πατρών ( <a href="http://www.chemeng.upatras.gr">www.chemeng.upatras.gr</a> )  1984- Σημαντικός ρόλος στη δημιουργία και

την ανάπτυξη του ITE/EIXHMYΘ  
([www.iceht.forth.gr](http://www.iceht.forth.gr))

1991- Δημιουργία και ανάπτυξη του Δικτύου  
ΠΡΑΞΗ και του IRC HELP FORWARD  
([www.help-forward.gr](http://www.help-forward.gr))

### **Βραβεία**

1975 *Suttle* Award (The Filtration Society, London)

1978 *du Pont* Young Faculty Grant

1979 Best Fundamental Paper Award,  
Amer. Inst. Chem. Engrs. (Texas)

1980 *Halliburton* Engineering Faculty Research  
Excellence Award

1980 Best Fundamental Paper Award,  
Amer. Inst. Chem. Engrs. (Texas)

1981 *Allan P. Colburn* Lectureship,  
University of Delaware

1982 *Robert W. Vaughan* Lectureship,  
California Institute of Technology

### **Διακρίσεις**

1980 NSF Representative of the USA to Japan for  
Aerosol Research (June 21-July 3)

1987-91 Εθνικό Γνωμοδοτικό Συμβούλιο Έρευνας

1987 Μέλος της Επιτροπής της ΓΓΕΤ για  
“Χάραξη Πολιτικής σε Θέματα  
Τεχνολογικής Υποδομής και Βιομηχανικής  
Έρευνας”

1987-90 Μέλος της Ομάδας Εργασίας για θέματα  
Εσωτερικής Συνοχής της Ευρωπαϊκής  
Κοινότητας στους τομείς της Τεχνολογίας  
και της Έρευνας

1987-91 CAN Committee για τα Κοινοτικά  
Προγράμματα BRITE & BRITE EURAM

1989-90 CAN Committee για το Κοινοτικό  
Πρόγραμμα VALUE

1992- Επιλογή από την EFCE (European  
Federation of Chemical Engineering) ως του  
Έλληνα Εκπροσώπου

- 1993-02 Αντιπρόεδρος, ΕΣΕΤΕ (ARTT)
- 1999-02 Μέλος του “Physical and Engineering Science and Technology (PST) Panel” του NATO. (Αντιπρόεδρος του PST Panel για το 2001 και Πρόεδρος για το 2002.)
- 1999- Μέλος, Editorial Board, *Transport in Porous Media* (Kluwer Academic Publishers).
- 2002 Το IRC HELP-FORWARD έλαβε από την ΕΕ το “2002 Best Innovation Relay Centre of Europe Award” (ανάμεσα σε περισσότερα από άλλα 70 IRCs).
- 2005 Japan Society for the Promotion of Science Fellowship 2005. (Περιοδεία για την παρουσίαση σεμιναρίων σε πανεπιστήμια και εταιρείες στην Ιαπωνία, 20/3-9/4.)

### ***Εμπειρογνωμοδότηση***

- Tech. Prod. Div., Brunswick Corp.; 1974-1978
- Shell Development Co.; 1976
- National Science Foundation, USA; 1977
- Marathon Oil Company; 1979
- General Motors; 1979
- The 3M Company; 1979
- Schlumberger-Doll Research Center; 1979-1984
- Intern. Fine Particle Res. Inst.; 1979-1981
- Eastman Kodak; 1980
- du Pont; 1981
- Exxon Production Research; 1981
- Petrotec Systems; 1985
- Comm. of the European Comm., BRITE; 1987
- Comm. of the European Comm., BRITE-EURAM; 1989-91
- Comm. of the European Comm.,: Strategic Planning for RTD; 1992
- Comm. of the European Community, PECO; 1992

## Διπλώματα Ευρεσιτεχνίας

Norwegian Patent No. 19985505 (1999) &  
PCT Patent No. PCT/NO99/00341: “Controlled consolidation of and permeability loss in porous media with precipitation of inorganic salts”. (With Professors P. Koutsoukos and Terje Ostvold, and Dr. Peter Read.)

## Διοικητική πείρα

- \* Πρόεδρος του Τμήματος Χημικών Μηχανικών, Πανεπιστήμιο Πατρών, 1984-86.
- \* Διευθυντής του Τομέα Φυσικών Διεργασιών και Περιβάλλοντος, Τμήματος Χημικών Μηχανικών, Πανεπιστήμιο Πατρών, 1983-95.
- \* Μέλος του ΕΣΙ του ΙΤΕ/ΕΙΧΗΜΥΘ, 1985-99.
- \* Πρόεδρος της Συμβουλευτικής Επιτροπής των Κοινοτικών Προγραμμάτων Έρευνας και Τεχνολογίας (ΕΚΠΕΡΤ) της Γενικής Γραμματείας Έρευνας & Τεχνολογίας, 1988-90.
- \* Μέλος του Δ.Σ. του Επιστημονικού Πάρκου Πατρών Α.Ε., 1989-2004.
- \* Πρόεδρος της ΠΡΑΞΗ ΚΠ (Πρωτοβουλία για την Αξιοποίηση των Κοινοτικών Προγραμμάτων). Δίκτυο εθνικής κλίμακας για την προώθηση και διάδοση της Τεχνολογίας, υπό την αιγίδα του ΣΕΒ και ΙΤΕ, 1991-παρόν.
- \* Διευθυντής του Innovation Relay Centre HELP FORWARD (HELlenic Project for Wider Application of R&D), 1995-παρόν.
- \* Αντιπρόεδρος και Μέλος του Δ.Σ., ΕΣΕΤΕ (Εταιρεία Στήριξης Έρευνας, Τεχνολογίας και Εκπαίδευσης), 1993-2002.
- \* Διευθυντής της ΕΣΕΤΕ / Υποκατάστημα Πατρών, 1996-1999.
- \* Μέλος του Δ.Σ. της FORTHnet Α.Ε., 1996-2001.
- \* Μέλος του Δ.Σ. του ΙΤΕ, από 19/1/1999. Αντιπρόεδρος του Δ.Σ. του ΙΤΕ, 2001-04.
- \* Διευθυντής του ΙΤΕ/ΕΙΧΗΜΥΘ, από 19/1/1999.
- \* Διευθύνων της ΚΔ του ΙΤΕ, από 3/2005.
- \* Πρόεδρος του ΙΤΕ, από 6/2005. (Προεδρεύων ΙΤΕ 3-6/2005.)

Ενημέρωση: Νοέμβριος 2007

## Παράρτημα Α : Επίβλεψη μεταπτυχιακών σπουδαστών

### *I. Διδακτορικά, ολοκληρωμένα*

1. K.M. Ng, "Oil Ganglion Dynamics in Flow Through Porous Media," Ph.D. Dissertation, Univ. of Houston, 1980.
2. M. M. Dias, "Formation and Dynamics of Oil Ganglia in Porous Media," Ph.D. Dissertation, Univ. of Houston, 1984.
3. Ο. Βύζικα, "Αμιγής μικροεκτόπιση δύο ρευστών μέσα σε πορώδη πετρώματα," Διδακτορικό Δίπλωμα, Πανεπ. Πατρών, 1989.  
[O. Vizika, "Immiscible displacement of two fluids in porous rocks", Ph.D. Dissertation, Dept. of Chemical Engineering, Univ. of Patras, 1989. (In greek.)]
4. Γ. Κωνσταντινίδης, "Συνένωση γαγγλίων πετρελαίου κατά την αμιγή μικροεκτόπιση μέσα σε πορώδη πετρώματα," Διδακτορικό Δίπλωμα, Πανεπ. Πατρών, 1989.  
[G. Constantinides, "Coalescence of oil ganglia during immiscible microdisplacement in porous rocks", Ph.D. Dissertation, Dept. of Chemical Engineering, Univ. of Patras, 1989. (In greek.)]
5. Χ. Τσακίρογλου, "Βελτιωμένη μέθοδος ανάλυσης της πορώδους δομής διαπερατών στερεών: Εφαρμογή σε Ελληνικά πετρελαιοφόρα πετρώματα," Διδακτορικό Δίπλωμα, Πανεπ. Πατρών, 1990  
[Ch. Tsakiroglou, "Improved method for the analysis of the pore structure of permeable solids. Application to Greek oil reservoirs", Ph.D. Dissertation, Dept. of Chemical Engineering, Univ. of Patras, 1990. (In greek.)]
6. Χ. Παρασκευά, "Θεωρητική και πειραματική μελέτη της μεταβατικής συμπεριφοράς συστημάτων βαθιάς διήθησης", Διδακτορικό Δίπλωμα, Πανεπ. Πατρών, 1992.  
[Ch. Paraskeva, "Theoretical and experimental study of the transient behavior of deep bed filtration", Ph.D. Dissertation, Dept. of Chemical Engineering, Univ. of Patras, 1992. (In greek.)]
7. Α. Μιχαλοπούλου, "Θεωρητική μελέτη της μικροδιήθησης με εγκάρσια ροή", Διδακτορικό Δίπλωμα, Πανεπ. Πατρών, 1993.  
[A. Michalopoulou, "Theoretical study of cross-flow microfiltration", Ph.D. Dissertation, Dept. of Chemical Engineering, Univ. of Patras, 1993. (In greek.)]
8. Φ. Κουτελιέρης, "Μελέτη των φαινομένων μεταφοράς μάζας προς σμήνος προσροφούντων στερεών σφαιροειδών σωματιδίων από κινούμενο υπό συνθήκες έρπουσας ροής Νευτώνειο ρευστό", Διδακτορικό Δίπλωμα, Πανεπ. Πατρών, 1995.  
[F. Koutelieris, "Study of mass transfer from a Newtonian fluid flowing through a swarm of adsorbing spheroidal particles under creeping flow conditions", Ph.D. Dissertation, Dept. of Chemical Engineering, Univ. of Patras, 1995. (In greek.)]

9. Δ. Αβραάμ, “Σχετικές διαπερατότητες και καθεστώτα ροής δύο μη αναμειγμένων ρευστών κατά τη ροή τους σε πορώδη σώματα”, Διδακτορικό Δίπλωμα, Πανεπ. Πατρών, 1996.  
[D. Avraam, “Relative permeabilities and flow regimes during two-phase immiscible flow in porous media”, Ph.D. Dissertation, Dept. of Chemical Engineering, Univ. of Patras, 1996. (In greek.)]
10. Μ. Βαλαβανίδης, “Μακροσκοπική θεωρία διφασικής ροής σε πορώδη υλικά βάσει ολοκληρώσεως των φαινομένων κλίμακας πόρων”, Διδακτορικό Δίπλωμα, Πανεπ. Πατρών, 1998.  
[M. Valavanides, “Macroscopic theory of two-phase flow in porous media based on the integration of pore-scale phenomena”, Ph.D. Dissertation, Dept. of Chemical Engineering, Univ. of Patras, 1998. (In greek.)]
11. Α. Αγγελόπουλος, “Μελέτη πολυφασικής ροής σε πορώδη σώματα με τη μέθοδο των κυτταρικών αυτομάτων”, Διδακτορικό Δίπλωμα, Πανεπ. Πατρών, 1998.  
[A. Angelopoulos, “Study of multiphase flow in porous media using the method of cellular automata”, Ph.D. Dissertation, Dept. of Chemical Engineering, Univ. of Patras, 1998. (In greek.)]
12. Ε. Σκούρας, “Διάχυση και ρόφηση κατά την ανίχνευση αερίων με ημιαγωγίμους νανοκεραμικούς ανιχνευτές”, Διδακτορικό Δίπλωμα, Πανεπ. Πατρών, 2000.  
[E. Skouras, “Diffusion and absorption in gas sensors composed of semiconductor nanoceramics”, Ph.D. Dissertation, Department of Chemical Engineering, Univ. of Patras, 2000. (In greek.)]
13. Δ. Διαμαντής, «Καύση αερίων υδρογονανθράκων μέσα σε πορώδη κεραμικά», Διδακτορικό Δίπλωμα, Πανεπ. Πατρών, 2001.  
[D. Diamantis, “Combustion of gaseous hydrocarbons in porous ceramics”, Ph.D. Dissertation, Department of Chemical Engineering, Univ. of Patras, 2001. (In greek.)]
14. Α. Καλαράκης, «Προσομοίωση διφασικής ροής με φαινόμενα διαβροχής και αλλαγή φάσεως μέσω μίας νέας μεθόδου κυτταρικών αυτομάτων», Διδακτορικό Δίπλωμα, Πανεπ. Πατρών, 2003.  
[A. Kalarakis, “Simulation of two-phase flow with wetting and phase-change phenomena with a new cellular-automata method”, Ph.D. Dissertation, Department of Chemical Engineering, Univ. of Patras, 2003. (In greek.)]
15. Ι. Τ. Χαφέζ, «Ανάπτυξη σύνθετων εναποθέσεων για τη βελτίωση των μηχανικών ιδιοτήτων κοκκωδών υλικών», Διδακτορικό Δίπλωμα, Πανεπ. Πατρών, 2006.  
[I.T. Hafez, “Development of composite deposits for the enhancement of the mechanical properties of granular materials”, Ph.D. Dissertation, Department of Chemical Engineering, Univ. of Patras, 2006. (In greek.)]

16. Μ. Λιόλιου, «Μελέτη της συσσωμάτωσης εδαφών μέσω *in situ* καταβύθισης ανόργανων αλάτων ασβεστίου», Διδακτορικό Δίπλωμα, Πανεπ. Πατρών, 2006.  
[M. Lioliou, “Investigation of soil consolidation using in situ precipitation of inorganic calcium salts”, Ph.D. Dissertation, Department of Chemical Engineering, Univ. of Patras, 2006. (In greek.)]
17. Β. Συγγούνη, «Μία νέα μέθοδος μέτρησης της κλασματικής διαβροχής πορωδών μέσων από πειράματα εκτόπισης δύο φάσεων», Διδακτορικό Δίπλωμα, Πανεπ. Πατρών, 2007.  
[V. Sygouni, “A new method for the measurement of the fractional wettability of porous media from two-phase displacement experiments”, Ph.D. Dissertation, Department of Chemical Engineering, Univ. of Patras, 2007. (In greek.)]
18. Ι. Σγούντζος, «Μελέτη της κινητικής ανάπτυξης μικροοργανισμών κατά την βιοαποδόμηση τοξικών ρύπων σε πορώδη μέσα», Διδακτορικό Δίπλωμα, Πανεπ. Πατρών, 2007.  
[I. Sgountzos, “Investigation of the kinetics of the growth of microorganisms during the biodegradation of toxic pollutants in porous media”, Ph.D. Dissertation, Department of Chemical Engineering, Univ. of Patras, 2007. (In greek.)]

## ***II. Διδακτορικά σε εξέλιξη***

Η. Κωβαίος, Γ. Καπέλλος, Τ. Αλεξίου, Χ. Λινάρδος, Α. Μ. Ψαρρού.

### ***III. Διπλώματα MS, ολοκληρωμένα***

1. M. A. Neira, "A New Model of The Constricted Unit Cell Type for Granular Porous Media and Collocation Solution of the Creeping Newtonian Flow Problem," M.S. Thesis, 1977.
2. S. K. Bhutra "Experimental and Theoretical Study in Aerosol Particle Deposition," M.S. Thesis, 1978.
3. V. Medjimorec, "Estimation of Drug Forces Exerted on Particle Dendrites in Fibrous Filters," M.S. Thesis, 1979.
4. H. Park, "Deposition Pattern and Particle Cluster Reentrainment in Deep Bed Filtration in the Presence of Polyelectrolytes," M.S. Thesis, 1979.
5. G. Woodham, "Experimental Verification of the Method Used to Determine the Stranding Coefficient and the Breakup Coefficient," M.S. Thesis, 1979.
6. S. Rapin, "Behavior of Non-Wetting Oil Ganglia Displaced by an Aqueous Phase," M.S. Thesis, Univ. of Houston, 1980.
7. J. Petrie, "Enhancement of Depth Filtration Efficiency by Polyelectrolytes", M.S. Thesis, Univ. of Houston, 1980.
8. F. Auzeais, "Dendritic Deposition of Neutral Dielectric Aerosol Particles on a Dielectric Filer in the Presence of an Electrical Field," M.S. Thesis, Univ. of Houston, 1980.
9. P. Brossard, " Influence of Electrostatic Forces on the Dendritic Deposition of Aerosol Particles for Small, Intermediate and High Stokes Numbers," M.S. Thesis, Univ. of Houston, 1981.
10. R. Hinkley, "Experimental Study of the Motion of Oil Ganglia in Model Porous Media," M.S. Thesis, Univ. of Houston, 1982.

## Παράρτημα Β: Δημοσιεύσεις σε διεθνή επιστημονικά περιοδικά με κριτές

1. Payatakes, A. C., Chi Tien, and R. M. Turian, "A New Model for Granular Porous Media. Part I. Model Formulation," *AIChE J.*, **19**, 58-67 (1973).
2. Payatakes, A. C., Chi Tien, and R. M. Turian, "A New Model for Granular Porous Media. Part II. Numerical Solution of Steady State Incompressible Newtonian Flow Through Periodically Constricted Tubes," *AIChE J.*, **19**, pp. 67-76 (1973).
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## Παράρτημα Γ: Δημοσιεύσεις σε βιβλία

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## Παράρτημα ΣΤ: Σεμινάρια κατόπιν προσκλήσεως

1. "Advances in Deep Bed Filtration Theory", Department of Environmental Engineering, Rice University, Houston , March, 1976.
2. "Deep Bed Filtration. Theory and Practice", Shell Development Co., Westhollow Center, Houston, December 15, 1976.
3. "Simulation of Oil-Ganglia Motion, Breakup and Coalescence in Immiscible Displacement During Tertiary Oil Recovery," Department of Chemical Engineering and Materials Science, University of Minnesota, Minneapolis, November 18, 1977.
4. "Aerosol Particle Deposition with Dendritic Pattern," Department of Chemical Engineering, Virginia Polytechnic Institute and State University, Blacksburg, Virginia, November 28, 1977.
5. "Dynamics of Oil Ganglia During Immiscible Displacement in Enhanced Oil Recovery," University of Houston, November, 1978.
6. "Dynamics of Oil Ganglia During Immiscible Displacement," Marathon Oil Company, March 12, 1979.
7. "Dynamic Behavior of Aerosol Particle Deposition in Fibrous Filters," General Motors Research Laboratories, Warren, Michigan, July, 1979.
8. "Dynamics of Immiscible Displacement of Non-Wetting Liquid by a Wetting Phase in Granular Porous Media," Schlumberger-Doll Research Center, Ridgefield, Conn. July, 1979.
9. "Aerosol Particle Deposition with Dendritic Pattern," The 3M Company, St. Paul, Minn. October, 1979.
10. "Modeling of Flow in Porous Media," Eastman-Kodak Research Laboratories, Rochester, N.Y., January 7, 1980.
11. "Dynamics of Oil Ganglia During Immiscible Displacement in Porous Media," Massachusetts Institute of Technology, February 15, 1980.
12. "Dynamics of Oil Ganglia During Immiscible Displacement in Porous Media," Illinois Institute of Technology, February 20, 1980.
13. "Dynamics of Oil Ganglia During Immiscible Displacement in Porous Media," University of New Mexico, February 25, 1980.
14. "Dynamics of Oil Ganglia During Immiscible Displacement in Porous Media," University of Calgary, March 7, 1980.
15. "Dynamics of Immiscible Displacement of Oil Ganglia During Chemical Flooding," Institut Français du Pétrole, Paris, France, June 13, 1980.
16. "Dynamics of Immiscible Displacement of Oil Ganglia During Chemical Flooding," University of Patras, Patras, Greece, June 17, 1980.

17. "Dendritic Aerosol Deposition," Kanazawa University, Kanazawa, Japan, June 26, 1980.
18. "The Dynamic Behavior of Aerosol Filtration in Fibrous Filters," Fine Particle Society of Japan Meeting at Kyoto University, Kyoto, Japan, June 28, 1980.
19. "The State of the Art of Deep Bed Filtration of Hydrosols," Kyoto University, Kyoto, Japan, July 1, 1980.
20. "On Dynamics of Oil Ganglia During Immiscible Displacement," Exxon Production Research, Houston, January 13, 1981.
21. "Modeling of Porous Media and Applications to Solid-Fluid Separations," DuPont Engineering Center, Newark, Delaware, January 28, 1981.
22. "Motion and Dynamics of Oil Ganglia During Immiscible Displacement in Permeable Media," Rice University, January 29, 1981.
23. "Dendritic Deposition of Fine Particles," DuPont Engineering Center, Newark, Delaware, March 3, 1981.
24. "Dynamics of Oil Ganglia Undergoing Displacement," ALLAN P. COLBURN, LECTURE, University of Delaware, April 23, 1981.
25. "On the Dynamic Displacement of Oil Ganglia in Porous Media," Schlumberger-Doll Research Center, Ridgefield, Conn., June 11-12, 1981.
26. "Dynamics of Oil Ganglion Populations. Applications to Enhanced Oil Recovery", ROBERT W. VAUGHAN LECTURE, California Institute of Technology, April 22, 1982.
27. "Δυναμική Γαγγλίων Πετρελαίου κατά την Διάρκεια Αγίμου Εκτοπίσεως σε Πορώδη Πετρώματα", Τμήμα Χημικών Μηχανικών, Εθνικό Μετσόβιο Πολυτεχνείο, Μάρτιος 1982.
28. "Δενδριτική Απόθεση Αεροκολλοειδών Σωματιδίων σε Ινώδη Φίλτρα", Τμ. Χημικών Μηχανικών, Πανεπιστήμιο Πατρών, 7 Φεβρουαρίου 1983.
29. "Basic Research for Improved Secondary and Tertiary Oil Recovery," Department of Chemical Engineering, University of Bologna, Bologna, Italy, January 24, 1984.
30. "Oil Ganglion Dynamics", TEMA/ENIDATA, Bologna, Italy, January 25, 1984.
31. "Immiscible Microdisplacement in Porous Media," Physical-Chemical Institute, Technical University of Denmark, Lyngby, Denmark, June 28, 1984.
32. "Theoretical Simulation of Microdisplacement in Porous Media. The Combined Effects of the Capillary Number and the Viscosity Ratio," Department of Chemical Engineering, University of Bologna, Bologna, Italy, July 25, 1985.
33. "Two-Phase Flow in Porous Media," University of Nancy, Department of Chemical Engineering, Nancy, France, July 7, 1986.
34. "Immiscible Displacement and Ganglion Dynamics in Porous Media", Dowell-Schlumberger R&D Center, Saint Etienne, France, July 8, 1986.

35. "Particle Deposition and Reentrainment in Depth Filters," Institut de la Filtration et de Technique Separatives, Agen, France, July 9, 1986.
36. "Ροή Γύρω από και Μέσα σε μια Διαπερατή Σφαίρα που Πλησιάζει ένα Στερεό Τοίχωμα," Πανεπιστήμιο Πατρών, Τμήμα Χημικών Μηχανικών, 8 Δεκεμβρίου, 1986.
37. "Ροή Δύο Φάσεων μέσα σε Πορώδη Σώματα," Κέντρο Ατομικών Ερευνών, "Δημόκριτος," 9 Δεκεμβρίου, 1986.
38. "A Theoretical Model of the Collision and Coalescence of Ganglia in Porous Media," Dept. of Chemical Engineering, Princeton University, Dec. 5, 1988.
39. "Steady State two Phase Flow Through Porous Media", University of Oslo, Oslo, Norway, June 21, 1991.
40. "Two-Phase Flow in Porous Media", Department of Chemistry, University of Sofia, Bulgaria, March 13, 1993.
41. "Depth Filtration", Department of Chemistry, University of Sofia, Bulgaria, March 16, 1993.
42. "Technology Parks", Inst. of Metal Science and Technology, Bulgarian Academy of Sciences, Sofia, Bulgaria, March 17, 1993.
43. "Emulsion stability phenomena in two-phase flow through porous media", University of Kyoto, Japan, May 21, 1993.
44. "Flow regimes and relative permeabilities during steady-state two-phase flow in porous media", KSEPL, SHELL RESEARCH BV., Rijswijk, Netherlands, October 26 & 27, 1994.
45. "Information Technology & Networking as a tool for training personnel and changing the perspectives of SME's: Greece 1994", Conference on Training in the Information Society, Organized by DG XIII of EC, Brussels, December 6 & 7, 1994.
46. «Σύνδεση της Επιχειρηματικής Παραγωγικότητας με την Ερευνα και την Τεχνολογική Ανάπτυξη», Δημερίδα «Παραγωγική Επιχειρηματική Δραστηριοποίηση στην Ηπειρο του 1995», Επιμελητήριο Ιωαννίνων (Βιομηχανικό Τμήμα), Μάιος 5 & 6, 1995.
47. "Flow Regimes and Relative Permeabilities during Steady-State Two-Phase Flow in Porous Media", Department of Physics (Group: Jens Feder and Torstein Jossang), University of Oslo, Norway, March 21, 1996.
48. "Flow Regimes and Relative Permeabilities during Steady-State Two-Phase Flow in Porous Media", Institut Francais du Petrole, Rueil Malmaison (Paris), France, May 20, 1996.
49. "Ροή δύο μη-αναμειξιμων ρευστών μέσω πορωδών σωμάτων. Πείραμα και θεωρία», Τμήμα Φυσικής, Πανεπιστήμιο Κρήτης, 5 Δεκεμβρίου, 1997.
50. "True-to-mechanism macroscopic theory of two phase flow in porous media", Institut für Verfahrenstechnik, ETH-Zentrum, Zürich, May 19, 1998.

51. «Νέα μακροσκοπική θεωρία για τη μόνιμη διφασική ροή μέσα σε πορώδη σώματα βάσει των πραγματικών μηχανισμών ροής στην κλίμακα των πόρων», Τμήμα Χημικών Μηχανικών, Πανεπιστήμιο Πατρών, 1 Ιουνίου, 1998.
52. “True-to-mechanism macroscopic theory of two phase flow in porous media”, Faculty of Chemistry, University of Sofia, September 24, 1998.
53. «Νέα μακροσκοπική θεωρία της μόνιμης ροής δύο φάσεων μέσα σε πορώδη σώματα, βασισμένη στους πραγματικούς μηχανισμούς στην κλίμακα των πόρων», ΕΚΕΦΕ «ΔΗΜΟΚΡΙΤΟΣ», 8 Οκτωβρίου, 1998.
54. “True-to-Mechanism Macroscopic Theory of Steady-State Two-Phase Flow in Porous Media; Decomposition into Prototype Flows (DeProF)”, IFP, Rueil Malmaison, Paris, France, November 26, 1998.
55. “True-to-Mechanism Macroscopic Theory of Steady-State Two-Phase Flow in Porous Media; Decomposition into Prototype Flows (DeProF)”, RF Rogaland Research, Stavanger, Norway, Jan. 18, 2000.
56. “True-to-Mechanism Model of Two-Phase Flow in Porous Media using Decomposition into Prototype Flows”, Division of Engineering and Applied Sciences, Department of Physics, Harvard University, Cambridge MA, Nov.17, 2000.
57. “True-to-Mechanism Model of Two-Phase Flow in Porous Media using Decomposition into Prototype Flows”, Dept. of Geology and Geotechnical Engineering, Technical University of Denmark, Lyngby, March 23, 2001.
58. “True-to-Mechanism Model of Two-Phase Flow in Porous Media using Decomposition into Prototype Flows”, Institute of Polymers, ETH-Zentrum, Zürich, March 6, 2002.
59. “Novel actions and priorities for cooperation: trends in basic science essential for development” (Round Table Discussion), NATO SCIENCE Programme –“Grand Gathering”, NATO Headquarters, Brussels, Belgium, 24 October 2002.
60. “Ροή δύο μη-αναμειξιμων ρευστών σε πορώδη μέσα», Τμήμα Μηχανολόγων Μηχανικών και Μηχανικών Βιομηχανίας, Πανεπιστήμιο Θεσσαλίας, Βόλος, 12 Ιουνίου, 2003.
61. ”Simulation of the growth of biofilms”, Dept of Chemical and Biomolecular Engineering”, Rice University, Nov. 4, 2004.
62. “Modeling of flow and convective mass transfer in granular porous media using the novel "network of grains-in-cell" model”, Dept of Chemical and Biomolecular Engineering”, Rice University, Nov. 5, 2004.
63. “Immiscible two-phase flow in porous media. Experimental results and theoretical simulations”, Dept. of Chemical Engineering, Univ. of Hiroshima, Japan (JSPS Lecture), March 22, 2005.
64. “Simulation of the Brownian Dynamics of aerosol particle aggregates” Dept. of Chemical Engineering, Univ. of Hiroshima, Japan (JSPS Lecture), March 23, 2005.

65. "Simulation of the Brownian Dynamics of aerosol particle aggregates" Dept. of Chemical Engineering, Univ. of Kanazawa, Japan (JSPS Lecture), March 30, 2005.
66. "Simulation of the Brownian Dynamics of aerosol particle aggregates" Dept. of Chemical Engineering, Univ. of Kyoto, Japan (JSPS Lecture), Apr. 1, 2005.
67. "Hierarchical simulator of biofilm growth and calculation of the local and effective transport coefficients", R&D Headquarters, SEIKO EPSON Corp., Kamisuwa, Japan (JSPS Lecture), Apr. 5, 2005.
68. "Immiscible two-phase flow in porous media. Experimental results and theoretical simulations", R&D Headquarters, SEIKO EPSON Corp., Kamisuwa, Japan (JSPS Lecture), Apr. 5, 2005.

## **Παράρτημα Ζ: Συμμετοχή στην οργάνωση επιστημονικών συνεδρίων**

- 1976 «Novel Concepts and Methods in Particle-Gas Separation», 82<sup>nd</sup> AIChE Conference, Atlantic City, August 29-September 1. Session Co-Chairman.
- 1976 “Advances in Fine Particulate-Gas Separation. Theory and Practice”, AIChE 69<sup>th</sup> Annual Meeting, Chicago, November 28-December 2. Session Chairman.
- 1977 “Particle-Fluid Separation. Part I”, and “Particle-Fluid Separation. Part II”. AIChE 83<sup>rd</sup> National Meeting, Houston, March 20-24. Chairman of two sessions.
- 1978 “Fluid-Particle Interactions”, 1977 Fine Particle Society Meeting, Stanford Research Institute, Menlo Park, California, August 25-26. Session Chairman.
- 1979 “Enhanced Oil Recovery. Part I; Part II; Part III”, AIChE 84<sup>th</sup> National Meeting, Atlanta, February 26-March 1, Chairman of 3 Sessions.
- 1981 “Interfacial Phenomena in Enhanced Oil Recover”, 90<sup>th</sup> AIChE National Meeting, Houston, April 5-9. Chairman and Co-chairman in 2 Sessions.
- 1990 “BRITE-EURAM 3<sup>rd</sup> Technological Days”, Session 5C: Manufacturing Techniques. Chairperson. Also, member of the 9-member Technical Committee for the whole Program.
- 1990 5<sup>th</sup> IFP Research Conference on Exploration/Production., “Fundamentals of Fluid Transport in Porous Media”, Arles, France, May 14-18, 1990. Member of the Scientific Committee.
- 1993 “6<sup>th</sup> World Filtration Congress”, Program & Scientific Committee, Chairman of one Session, Nagoya, Japan, May 18-21, 1993.
- 1997 “1st Panhellenic Scientific Conference in Chemical Engineering”. Member of the Scientific Committee. Patras, Greece, May 29-31.
- 1998 «XII-th International Conference on COMPUTATIONAL METHODS IN WATER RESOURCES (CMWR XII)”. Heraklion, Crete, Greece, June 15-19. Member Organizing Committee and co-Editor of Proceedings.
- 1998 “Chalk-Talk” at the “Gordon Research Conference” on “Flow in Permeable Media”, Proctor Academy, Andover, NH, USA, Aug. 2-7. Co-organizer.
- 1998 “EnviroMEET ‘98”. Univ. of California, Irvine, CA, July 20-23. Member of the Scientific Committee.
- 1998 “5th National Congress on Mechanics”. Ioannina, Aug. 27-30. Session Chairman.
- 1998 “2<sup>nd</sup> Meeting of the Hellenic Society of Rheology and International Symposium (HSR 98)”. Heraklion, Crete, Greece, Aug. 31-Sept. 2. Session Chairman.

- 2000 “Investing in Europe’s Human Research Potential”. The European Commission, Research Directorate General. Heraklion, Crete, Greece, October 4-7. Member of the Organizing Committee.
- 2001 “International Meeting of the Hellenic Society of Rheology (Dedicated to Professor Andreas Acrivos on the Occasion of his Retirement, Patras, Greece, June 10-14. )”. Member of the Organizing Committee, Member of the Scientific Committee, and Session Co-Chairman.
- 2001 “5<sup>th</sup> International Workshop on Mathematical Methods in Scattering Theory and Biomedical Technology”. Corfu, Greece, Oct. 18-19. Member of the Organizing Committee.
- 2003 “3<sup>rd</sup> Eastern Mediterranean Chemical Engineering Conference (EMCC-3)”. Thessaloniki, Greece, May 13-15. Member of the Organizing Committee.
- 2003 “4th Panhellenic Scientific Conference in Chemical Engineering”. Patras, Greece, May 29-31. Chairman of two Sessions.
- 2003 “6<sup>th</sup> International Workshop on Mathematical Methods in Scattering Theory and Biomedical Technology”. Monastery of Rogovos, Tselepovo, Greece, Sept. 18-21. Member of the Organizing Committee.
- 2004 “*Stratis V. Sotirchos* Memorial Session: Part I and Part II” at the AIChE 2004 Annual Meeting, Austin, TX, Nov. 7-12 Co-organizer with Professor T.J. Mountziaris.
- 2005 “4<sup>th</sup> Eastern Mediterranean Chemical Engineering Conference”, Le Meridien Hotel, Dead Sea, Israel, Jan. 9-11, 2006. Member of the Organizing Committee.

## Παράρτημα Η: Αναφορές σε επιστημονικά συγγράμματα

Βιβλιογραφικές αναφορές γίνονται σε αρκετά επιστημονικά συγγράμματα, όπως τα ακόλουθα:

1. F. A. L. Dullien, “Porous Media. Fluid Transport and Pore Structure”, Academic Press, New York, 1979, *and* 2nd edition 1992.
2. T. G. M. van de Ven, “Colloidal Hydrodynamics”, Academic Press, London, 1989.
3. C. Tien, “Granular Filtration of Aerosols and Hydrosols”, Butterworth, London, 1989.
4. G.I. Barenblatt, V.M. Entov & V.M. Ryzhik, “Theory of Fluid Flows Through Natural Rocks”, Kluwer Academic Publishers, Dordrecht, 1990.
5. P. M. Adler, “Porous Media. Geometry and Transports”, Butterworth-Heinemann, London, 1992.
6. M. Kaviany, “Principles of Heat Transfer in Porous Media”, Springer-Verlag, New York, 1992.
7. M. Elimelech, J. Gregory, X. Jia, and R. Williams, “Particle Deposition and Aggregation”, Butterworth and Heinemann, Oxford UK, 1995.
8. M. Sahimi, “Flow and Transport in Porous Media and Fractured Rock”, VCH Verlagsgesellschaft, Weinheim, Germany, 1995.

## **Παράρτημα Θ: Χρηματοδοτημένα ερευνητικά έργα**

### **58 χρηματοδοτημένα έργα ΕΤΑ**

**(Παρακαλώ, βλ. τον ακόλουθο Πίνακα)**

FUNDING ORGANIZATION	DURATION	TITLE	PI	OTHER RESEARCHERS	PARTNERS	TOTAL BUDGET	OWN BUDGET
NSF	1975-1977	Experimental and theoretical study of the growth of chain-like particle deposits during aerosol filtration in fibrous media and of their effects on filtration efficiency and pressure drop	A. C. Payatakes			74.200 USD	74.200 USD
University of Houston	1975	Study of reentrainment of aerosol particle clusters	A. C. Payatakes			3.933 USD	3.933 USD
Energy Institute/UH	1976	Fundamental aspects of oil production by chemical and polymer flooding	A. C. Payatakes	R. W. Flumerfelt		11.100 USD	11.100 USD
University of Houston/NROP	1976	Experimental and theoretical investigation of colloidal particle deposition	A. C. Payatakes			6.000 USD	6.000 USD
Energy Institute/UH	1977	Improvement of performance of solid-gas separation in energy production and energy consuming processes through particle agglomeration	A. C. Payatakes			12.500 USD	12.500 USD
NSF	1977-1979	Fundamental experimental studies and theoretical modeling of the transient behavior of deep bed filtration	A. C. Payatakes			59.700 USD	59.700 USD
ERDA	1977-1979	Basic studies in the displacement of residual oil by chemical flooding	A. C. Payatakes	R. W. Flumerfelt		147.300 USD	147.300 USD
NSF	1977-1979	Experimental and theoretical study of transient aerosol particle deposition in fibrous media with dendritic pattern	A. C. Payatakes			70.200 USD	70.200 USD
NSF	1978-1979	Undergraduate Research Participation	A. C. Payatakes			10.800 USD	10.800 USD

DuPont	1978	duPont Young Faculty Grant	A. C. Payatakes			20.000 USD	20.000 USD
Marathon Oil Co.	1978-1980	Unrestricted research grant	A. C. Payatakes	R. W. Flumerfelt		16.000 USD	16.000 USD
Shell Development Co.	1978-1979	Unrestricted research grant	A. C. Payatakes	R. W. Flumerfelt		20.000 USD	20.000 USD
NSF	1978	An image-analysis system for experimental studies of chemical and biochemical processes involving dispersed particles and microorganisms	A. C. Payatakes	J. E. Bailey		25.000 USD	25.000 USD
Energy Institute/UHCC	1978	Enhanced Oil Recovery and Improved Coal Utilization Research Aided by an Image Analysis System	A. C. Payatakes			16.000 USD	16.000 USD
DOE	1979-1981	Basic studies in the displacement of residual oil	A. C. Payatakes	R. W. Flumerfelt		229.370 USD	229.370 USD
NSF	1980-1982	Fundamental experimental studies and theoretical modeling of the transient behavior of deep bed filtration	A. C. Payatakes			75.000 USD	75.000 USD
NSF	1980-1982	Experimental and theoretical study of transient aerosol particle deposition in fibrous media with dendritic pattern	A. C. Payatakes			72.000 USD	72.000 USD
Schlumberger - Doll Research Center	1982	Unrestricted research grant	A. C. Payatakes			25.000 USD	25.000 USD
Ministry of Research and Technology	1983	Proposal for the creation and development of a Research Center for Chemical and Metallurgical Industries	A.C. Payatakes, G. Papatheodorou, G. Stephanopoulos, C. Vayenas				

CEC (GUEST SCIENTISTS)	1985-1986	Polymer rheology: stress induced migration of polymers, polymer precipitation and microdisplacement of oil in porous media; dynamic displacement of oil ganglia and dependence on system parameters of relative permeability to oil and water	G. Dassios	A.C. Payatakes G. Sarti		45.637 ECU	45.637 ECU
CEC (SCIENTIFIC CO-OPERATION)	1985-1987	Polymer Behaviour in Flow through Porous Media	A. C. Payatakes		FORTH/ICE-HT (GR) Universita degli studi di Bologna (IT)	36.652.000 Drs	3.322.000 Drs
DEP S.A. (Public Petroleum Corporation of Greece)	1985-1988	Studies for the development of improved secondary and tertiary oil recovery	A. C. Payatakes			1.925.000 Drs	1.925.000 Drs
GREEK OIL REFINERIES AT ASPROPYRGOS S.A.	1985-1988	Design and technicoeconomical optimization of depth filtration systems for the treatment of process water and liquid wastes	A. C. Payatakes			20.000 ECU	20.000 ECU
ICE/HT	1985-1991	Basic research in enhanced oil recovery	A. C. Payatakes			274.000 ECU	274.000 ECU
ICE/HT	1985-1991	Design and optimization of depth filtration systems for the treatment of industrial wastes				60.000 ECU	60.000 ECU
CEC (Community Projects in the Hydrocarbons)	1987-1991	Improved method of measurement and characterization of the porous microstructure of oil reservoir rocks; application to core samples from Greek reservoirs	A. C. Payatakes		Public Petroleum Corporation of Greece S.A. (DEP),	262.115 ECU	262.115 ECU

CEC (BRITE)	1988-1992	Development of a general computer aided technique for the characterization of the micropore structure of industrial porous media and development of general network simulators for the prediction of multiphase flow and transport phenomena in such porous structures	A. C. Payatakes	V. Burganos	Groupement Europeen de Recherches Technologiques sur les Hydrocarbures, Institut Francais du Petrole- (GERTH), Geological Survey of Denmark (GSDK), HALDOR TOPSOE A/S (GSDK), FORTH/ICE-HT (GR), Technical Univesrity of Denmark-Physical Chem. Inst. (TUDK)	2.270.000 ECU	180.000 ECU
GSRT (EPET/SPA)	1990-1993	Filtration of particulate pollutants from process water and liquid wastes of oil refineries and other industrial plants	A. C. Payatakes			30.000.000 Drs	30.000.000 Drs
Regional Development Program for Western Greece	1990-1993	Development of Energy Resources and Protection of the Environment	A.C. Payatakes	G.Dassios, S.Pavlou		23.500.000 Drs	23.500.000 Drs
SHELL RESEARCH BV (The Hague)	1991-1994	Experimental and theoretical investigation of two-phase flow in porous media. (MULTI PHASE FLOW)	A. C. Payatakes		SHELL RESEARCH B.V	190.000 NLG	190.000 NLG
GSRT (STRIDE- HELLAS)	1993-1994	WIND, Wind Energy Production Systems in Combination with Sea Water Desalination Systems	A. C. Payatakes		ERGON S.A., SPP S.A., Greek Technologies, Pyramis S.A., KAPE	831.600.000 Drs	24.814.196 Drs

CEU (BRITE-EURAM)	1993-1996	A novel approach for the modeling of three-phase flow in porous media. Applic. to enhanced oil recovery and environmental processes.	A. C. Payatakes		IFP (F), BP (UK), TNO (NL), AEA (UK), CNRS (F)	3.679.000 ECU	325.000 ECU
175.642.400 Drs	1995-1998	EARLY DIAGNOSIS, New instruments for early diagnosis and biotechnological applications	G. Dassios	A.C. Payatakes, G. Constantinides, V. Kostopoulos, Ch. Paraskeva, D. Polyzos	ECON Optics-Mechanics, EVANGELISMOS Hospital, NTUA, Univ. of Ioannina	3.679.000 ECU	180.000 ECU
300.000 ECU	1995-1998	CLEAN COMBUSTION of organic wastes in kilns of the cement industry, and development of new technology for the measurement of the environment-related parameters	V. Burganos, A. C. Payatakes		FORTH/ICE-HT (Contractor) TITAN, ECON Optics-Mechanics, Environmental Protection Engineering, IESL/FORTH, NCSR-Demokritos	1.753.000 ECU	300.000 ECU
12.000.000 Drs	1995-1997	New foodstuffs in the form of stable emulsions utilising greek olive oil	A. C. Payatakes		ELAIS S.A.	33.200.000 Drs	33.200.000 Drs
130.000 ECU	1995-1999	SMOGLess, Surface Modification and Optimization of Gas Nanoelectroceramics-Based Sensor Systems	V. Burganos	A. C. Payatakes	U. de Limoges, T.U. Clausthal, Fraunhofer Inst. für Biomedizinische Technik, U. of Wales Swansea, OLDHAM FRANCE S.A., CITY TECHNOLOGY Ltd.	1.497.000 ECU	
897.000 NOK	1997-2000	Experimental study of the consolidation of silicate sand through precipitation of inorganic salt	A. C. Payatakes	P. Koutsoukos C.A. Paraskeva		897.000 NOK	897.000 NOK

8.000.000 Drs	1997-1999	Soil and aquifer remediation from organic pollutants using aqueous surfactant floods	A. C. Payatakes	G. Constantinides		8.000.000 Drs	8.000.000 Drs
SEIKO EPSON Corp.: Base Technology Research Center (Japan)	1997-1999	Ink-Jet Printer project	V.N. Burganos, A.C. Payatakes			9.000.000 YEN	9.000.000 YEN
CEU (ENVIRONMENT & CLIMATE)	1997-2000	PORE-TO-CORE, scale-up studies of the transport properties of organic pollutants with Natural Attenuation	A. C. Payatakes		FORTH/ICE-HT (Contractor) U. Stuttgart, IMBB-FORTH, Delft U. of Technology, GEUS	1.150.600 ECU	324.000 ECU
GSRT, (PAVE)	1998-2000	New coating systems for painting and protecting modern construction materials	A. C. Payatakes	C.A. Paraskeva G.Constantinides	N. Lokovitis Color Hellas	65.200.000 Drs	15.000.000 Drs
GSRT (EPET II)	1998-2001	MHKKYNEΣ, Non-destructive wave-based testing of materials and composition analysis	A. C. Payatakes	D. Polyzos	FORTH/ICE-HT (Contractor) EKET Ltd, SPIDER S.A., U. of Ioannina, ENVIROCOUSTICS S.A	210.000.000 Drs	109.496.000 Drs
CEU (INCO-COPERNICUS)	1999-2001	Emulsions in Food Industry and as Contaminant in the Environment: Hydrodynamics of Filtration and Turbulence Enhanced Coalescence	A. C. Payatakes	C.A. Paraskeva G.Constantinides	U. of Sofia (BG), U. Erlangen-Nurnberg (D), Moscow State U. (RU), Kraft Jacobs Suchard R&D (D), Kalla Cosmetics Ltd (BG), Caritex Production Co. (BG)	240.000 ECU	48.000 ECU
GSRT (ISTOS)	1999-2000	Upgrading of the Research Infrastructure of FORTH/ICE-HT	A. C. Payatakes			100.000.000 Drs	100.000.000 Drs

HALDOR TOPSOE S/A	1999-2001	A novel method of characterization of the pore structure of catalyst carriers	C. Tsakiroglou	A.C.Payatakes, V. Burganos		50.000 USD	50.000 USD
SEIKO EPSON Corporation	1999-2001	Simulation of Ink-Jet hydrodynamics	V.N. Burganos, A.C. Payatakes			15.000.000 YEN	15.000.000 YEN
GSRT (PENED)	1999-2001	Hydrodynamic separation of blood cells	A. C. Payatakes	C.A. Paraskeva	ICE/HT-FORTH (Contractor); University of Patras (Medical School), G. Genimatas Hospital	40.000.000 Drs	40.000.000 Drs
CEU (IST)	2000-2001	INTAIRNET, Intelligent Air Monitoring Network	V. Burganos	C. Tsakiroglou, A.C.Payatakes	ICE/HT-FORTH (Contractor);CERA MEC (FR), TU- Clausthal (DE), University of South Wales (UK), Fraunhofer Institute EhG-IBMT (DE), OLDHAM (FR), COMSYS (DE), Patras Municipal Enterprise for Local Development (ADEP) (GR)	2.995.332 €	381.421 €
CEU (ENERGY)	2000-2003	GRACOS, Groundwater Risk Assessment at Contaminated Sites	V. Burganos	G. Constantinides, A.C.Payatakes	FORTH/ICE-HT (Contractor), University of Tübingen (DE), Netherlands Energy Reserach Foundation (NL), Technical University of Denmark (DK), Ecole Polytechnique Federale de Lausanne (CH), Fundacion LABEIN	2.482.600 €	350.000 €

					(ESP), Fundacion GAIKER (ESP)		
CEU (ENERGY)	2001-2003	QNC-UNIFORM, Quasi-Natural Consolidation of UNconsolidated or poorly consolidated oil FORMations	A. C. Payatakes	C.A. Paraskeva P. Koutsoukos	SCHLUMBERGER SA (NO) / Coordinator, SAGA Petroleum SA (NO), NTNU (NO),NORSK and TR Oil Services SA (NO)	1.648.320 €	351.398 €
CEU (ENERGY)	2000-2003	TRACE-FRACTURE, Toward an Improved Risk Assessment of the Contaminant Spreading in Fractured Underground Reservoirs	C. Tsakiroglou	P. Klepetsanis, V. Burganos, A.C. Payatakes	FORTH/ICE-HT (Contractor);, Institut Francais du Petrole(FR), Geological Survey of Denmark and Greenland (DK), CH2M-Hill / Environment Transport and Planning (ESP)	2.380.200 €	567.760 €
GSRT (Competitiveness)	2002-2004	Enhancement of the Excellence of the R&D Infrastructure of ICE/HT-FORTH	A. C. Payatakes			500.000 €	500.000 €
Regional Authority of Western Greece, (INNACT)	2002-2004	Monitoring of underground water pollution, prediction of plume spreading, and recommendation of mitigation actions	A. C. Payatakes	G.N. Constantinides		495.000 €	495.000 €

Regional Authority of Western Greece	2002-2003	Completion of the Structural Infrastructure of FORTH/ICE-HT	A. C. Payatakes			680.809 €	680.809 €
GSRT (EPAN)	2004-2006	Basic studies on the removal of nanoparticles from combustion gases in filters with nanostructure and microstructure	A. C. Payatakes	G.N. Constantinides		10.395 €	10.395 €
Norges Teknisk Naturvitenskaps (NTNU)	2005-2007	Experimental investigations and theoretical modelling of CaCO <sub>3</sub> , deposition, dissolution and inhibition during oil recovery	A. C. Payatakes	P.G. Koutsoukos C.A. Paraskeva		600.000 NOK	600.000 NOK
GSRT	2005-2008	Fundamental study of the water-permeability of cement and concrete	P.G. Koutsoukos	A.C. Payatakes C.A. Paraskeva		43.800 €	43.800 €
GSRT	2005-2005	Development of a process for in-depth consolidation of loose soils	C.A. Paraskeva	A.C. Payatakes P.G. Koutsoukos		43.800 €	43.800 €

**Παράρτημα Ι: Χρηματοδοτημένα Έργα για τη Διασύνδεση Έρευνας και Παραγωγής καθώς και τη Μεταφορά Τεχνολογίας**

**26 Χρηματοδοτημένα Έργα**

- Μέσω του Δικτύου ΠΡΑΞΗ
- και μέσω του Innovation Relay Centre HELP FORWARD

(Παρακαλώ, βλ. τον ακόλουθο Πίνακα)

	Project Name	Project Title	Programme	HELP FORWARD Role	Contract No	Starting Date	Completion Date	HELP FORWARD Budget	HELP FORWARD Funding
1	HELP FORWARD (ΠΡΑΞΗ ΚΠ)	Initiative for the Utilization of European Community R&D Programmes	STRIDE-HELLAS	CO	STRIDE-HELLAS 56/1991	1/6/1991	31/12/1994	1.206.000 ECU	1.206.000 ECU
2	IRC 2.22	Creation and Development of a Relay Centre in Greece	FP4 / Innovation	CO	NRC 2.22	1/12/1995	31/12/1996	426.667 ECU	197.648 ECU
3	FEMIRC BULGARIA	Creation and Development of a Fellow Member to the Innovation Relay Centres in Bulgaria	FP4 / Innovation-INCO	PA	20600	1/1/1997	30/6/2000	86.400 ECU	56.400 ECU
4	IRC 3.22	Operation of an Innovation Relay Centre in Greece	FP4 / Innovation	CO	NRC 3.22	1/12/1997	31/3/2000	514.650 ECU	257.325 ECU
5	FEMIRC ROMANIA	Creation and Development of a Fellow Member to the Innovation Relay Centres in Romania	FP4 / Innovation-INCO	PA	20702	15/12/1997	14/12/1999	49.800 ECU	36.600 ECU
6	IRC 4.22	Operation and expansion of Activities of the Innovation Relay Centre HELP-FORWARD in Greece	FP5 / Innovation & SMEs	CO	IRC 4.22	1/4/2000	31/3/2004	2.132.777 €	1.066.388 €
7	MINATECH	Micro and Nano Technologies and Markets	FP5 / Innovation & SMEs	PA	IPS-1999-950015	11/5/2000	10/2/2003	117.581 €	88.186 €

8	DILEMMA	Digital Design and Life-Cycle Management for Distributed Information Supply Services in Innovation Exploitation and Technology Transfer	FP5 / IST	PA	IST-1999-10092	1/6/2000	31/12/2001	162.038 €	81.019 €
9	BRIDGES	Business Route for Investors to determine Gifted Entrepreneurs and Start-Ups	E-content	PA	EDC-1134 BRIDGES /26918	1/1/2001	31/12/2001	51.845 €	36.810 €
10	FORETECH	Technology and Innovation Foresight for Bulgaria and Romania	FP5 / Improving Human Potential	PA	HPV1-CT-2002-60046	1/10/2002	31/8/2004	15.000 €	15.000 €
11	RURAL ETINET	Economic and Technological Intelligence Project to Facilitate SMEs in Rural Areas to participate in the FP6	FP6 / Research & Innovation	PA	ETIS-CT-2003-508500	15/12/2003	14/12/2006	46.572 €	34.480,77 €
12	MISMEC	New Methods for Involving SMEs in the Mechatronics sector in FP6	FP6 / Research & Innovation	PA	ETIS-CT-2004-508507	1/1/2004	31/12/2006	93.806 €	75.678 €
13	TALENT SCOUT	Talented SMEs for EU competitiveness in biotech diagnostic applications	FP6 / Research & Innovation	PA	ETIS-CT-2004-508510	1/1/2004	31/12/2006	80.880 €	61.260 €
14	NANO2LIFE	A network for bringing Nanotechnologies to Life	FP6 / NMP	PA	NMP4-CT-2003-500057	1/2/2004	31/1/2008	114.500 €	114.500 €
15	INTAS ININ NIP CONTINUING ADVICE	NIP Continuing Advice: Armenia, Azabaijan, Georgia	INTAS	CO	03-61-211	1/2/2004	31/1/2005	22.900 €	22.900 €

16	INTAS ININ Training Information Dissemination Techniques	TIDE - Techniques for information dissemination Efficiency	INTAS	CO	03-65-212	1/2/2004	30/4/2004	16.020 €	16.020 €
17	INTAS ININ Training Introduction to FP6	GIFT-General Introduction to Framework Tasks	INTAS	CO	03-63-84	1/2/2004	30/4/2004	19.560 €	19.560 €
18	FORTH ILO (ΓΑΜ ITE)	FORTH Industrial Liaison Office	GSRT Industrial Liaison Offices	CO	03-ΓΔ	1/1/2004	31/12/2006	300.000 €	300.000 €
19	INTEGRATING-ACC	Integrating the Associated Candidate Countries into the FP6 through networking activities and improved NCP services	FP6 / INCO	PA	INCO-CT-2004-510433	1/4/2004	31/3/2007	7.461 €	5.596 €
20	IRC 510.517	Operation and consolidation of Activities of the Innovation Relay Centre HELP-FORWARD in Greece	FP6 / Research & Innovation	CO	510517 (IRC 6)	1/4/2004	31/3/2008	2.861.000 €	1.298.450 €
21	INNOFIRE	Interregional co-operation for Development og Innovative Regional Economic Clusters	INTERREG IIIC	PA	3E0015I-B	1/7/2004	30/6/2007	76.148,93 €	57.111,70 €
22	NAOMITEC	Nano and Micro-TEC SMEs in Integrated Projects and Networks of Excellence	FP6 / Research & Innovation	PA	ETIS-CT-2004-508505	1/7/2004	30/6/2007	61.455,00 €	46.466,25 €

23	COOREERS	Co-ordination by Best Practice exchange and Knowledge building by the NMP-NCPs in an Enlarged European Research Society	FP6 / NMP	PA	NMP1-CT-2004-011800	1/12/2004	30/11/2007	14.642 €	14.642 €
24	EUROPEAN IST	Enhancing the participation of research organisations from Associated Candidate Countries to the 6th FP	FP6 / IST	PA	511328	1/1/2005	31/12/2006	115.276 €	105.160 €
25	ISOPTT	Increasing the small and micro enterprises own potential for transnational technology transfer	FP6/INN7	CO	030628	1/6/06	31/5/08	215.240 €	171.205 €
26	NEWTICKETT	New tools to improve clusters key European technology transfer	FP6/INN7	PA	030582	1/6/06	31/5/08	154.051 €	116.800 €