

ΒΙΟΓΡΑΦΙΚΟ ΣΗΜΕΙΩΜΑ

Δ. Ν. ΑΣΗΜΑΚΟΠΟΥΛΟΣ

Καθηγητής Πανεπιστημίου Αθηνών

Πρώτο Μέρος

Αθήνα 2013

1. ΓΕΝΙΚΑ ΣΤΟΙΧΕΙΑ

Όνοματεπώνυμο: Δημοσθένης Ασημακόπουλος του Νικολάου
Έτος γεννήσεως: 20 Ιουλίου 1948
Τόπος: Αθήνα
Οικ. κατάσταση: Παντρεμένος με δύο παιδιά

Όργανισμός κύριας απασχόλησης:

ΠΑΝΕΠΙΣΤΗΜΙΟ ΑΘΗΝΩΝ

Τμήμα Φυσικής, Πανεπιστημιούπολη, Κτίρια ΦΥΣ.- 5, 157 84 Αθήνα,
Διευθυντής Εργαστηρίου Μετεωρολογίας, πρώην Πρύτανης του Πανεπιστημίου.

Στοιχεία Επικοινωνίας

Κτήριο Φυσικής 5, Πανεπιστημιούπολης, Αθήνα 157 84, Ελλάς.

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2. ΣΠΟΥΔΕΣ ΠΑΝΕΠΙΣΤΗΜΙΑΚΕΣ

1973 Δίπλωμα (DIPLOMA) του University College London (Πανεπιστήμιο του Λονδίνου) του τμήματος Ηλεκτρονικών και Ηλεκτρολόγων Μηχανικών.

1976 Διδακτορικό Δίπλωμα (Ph.D) του Τμήματος Ηλεκτρονικών Ηλεκτρολόγων Μηχανικών του University College London, (Πανεπιστήμιο του Λονδίνου).

1977 Πτυχιακές - οκτάωρα Ηλεκτρονικού Μηχανικού, Σχολή Μηχανολόγων Ηλεκτρολόγων ΕΜΠ.

1979 Υφηγεσία της Φυσικομαθηματικής Σχολής του Πανεπιστημίου Αθηνών.

3. ΠΡΟΫΠΗΡΕΣΙΑ

Ακαδημαϊκές Θέσεις στο Πανεπιστήμιο

- 1973-1976** Research Assistant, του University College London, Dept. of Electronic and Electrical Eng.: (Αρ.Υπ. Γραφ.Προσωπικού Νο. ΕΕΒ3 αναγνωρισμένη από το Υπ.Π.Δ.Β.Μ.Θ.).
- 1976-1977** Research Fellow - Lecturer scale B' του ιδίου τμήματος. (Αρ. Υπ. Γραφ. Προσωπικού Νο. ΕΕΔ7 αναγνωρισμένη από το Υπουργείο Παιδείας της Ελλάδας).
- 1977-1978** Επιμελητής Τμήματος Φυσικής του Πανεπιστημίου Αθηνών
- 1978-1982** Εντ/νος Υφηγητής Έδρας Μετεωρολογίας του Πανεπιστημίου Αθηνών
- 1982-1984** Επίκουρος Καθηγητής του Τμήματος Φυσικής της Σχολής Θετικών Επιστημών του Παν/μίου Αθηνών
- 1984-1987** Αναπληρωτής Καθηγητής του Τμήματος Φυσικής της Σχολής Θετικών Επιστημών του Παν/μίου Αθηνών
- 1987-σήμερα** Καθηγητής του Τμήματος Φυσικής της Σχολής Θετικών Επιστημών του Παν/μίου Αθηνών

Διοικητικές Θέσεις στο Πανεπιστήμιο

- 1985-1994 και 2000-σήμερα** Διευθυντής του Εργαστηρίου Μετεωρολογίας
- 1987- 2000** Διευθυντής Τομέα Εφαρμοσμένης Φυσικής
- 1999- 2004** Πρόεδρος του Τμήματος Φυσικής
- 2003-2009** Αντιπρύτανης
- 2009-2010** Πρύτανης

Ακαδημαϊκές Θέσεις Εκτός Πανεπιστημίου

- 1978-1985** Με σύμβαση Καθηγητής της ΣΜΑ της Σχολής Ικάρων, (Προπτυχιακή Ανωτάτη Σχολή).
- 1978-1987** Με σύμβαση Καθηγητής της ΣΤΗΑΔ - Σχολής Επιμόρφωσης Αξιωματικών Διαβιβάσεων, (Μεταπτυχιακή Σχολή Επιμόρφωσης).
- 1980-1981** Senior Scientist – Researcher, National Oceanic and Atmospheric Administration, Wave Propagation Laboratory, Boulder Colorado, USA
- 1980-1981** Με σύμβαση Καθηγητής Εφαρμ. Στατιστικής της Μετεωρολογικής Σχολής της ΕΜΥ, (Μεταπτυχιακή Σχολή).
- 1989-1999** Διευθυντής του Ινστιτούτου Μετεωρολογίας και Φυσικής του Ατμ/κού Περιβάλλοντος του Εθνικού Αστεροσκοπείου Αθηνών.

4. ΔΙΔΑΚΤΙΚΟ ΕΡΓΟ

Διδάσκει το αντικείμενό του από το 1973 μέχρι σήμερα, τόσο στο εξωτερικό, όσο και στο εσωτερικό.

Στο εξωτερικό

α) 1973 - 1977:

Διδασκαλία εργαστηριακών ασκήσεων και ειδικές παραδόσεις στη διάδοση ηλεκτρομαγνητικών υψηλ συχνων ακτινοβολιών στην ατμόσφαιρα στους μεταπτυχιακούς φοιτητές του τμήματος Ηλεκτρονικών Μηχανικών του University College London.

β) 1990

Διδασκαλία στο International Center for Theoretical Physics of Trieste, Italy.

γ) 1992 – 1997

Διδασκαλία ως προσκεκλημένου καθηγητή στο Μεταπτυχιακό Τμήμα του European Association for Environmental Management education, στα ακόλουθα ιδρύματα:

- Πολυτεχνείο του Τορίνο
- Πανεπιστήμιο της Τρίερ

Στο εσωτερικό

α) Στο πλαίσιο της απασχόλησης στο Πανεπιστήμιο Αθηνών 1977 - σήμερα:

Η διδασκαλία καλύπτει μεγάλο αριθμό μαθημάτων σε προπτυχιακό και μεταπτυχιακό επίπεδο. Τα μαθήματα περιλαμβάνουν τα εξής θέματα:

- Πρακτική Μετεωρολογία - Οργανολογία Περιβαλλοντικού Εξοπλισμού
- Εφαρμοσμένη Στατιστική
- Φυσική του Οριακού Στρώματος της Ατμόσφαιρας
- Γενική Μετεωρολογία
- Ρύπανση - Προστασία Περιβάλλοντος
- Στοιχεία Γεωφυσικών Ροών
- Ράδιο Μετεωρολογία
- Ήπιες Μορφές Ενέργειας
- Φυσική Κτηρίου

Έχει καθοδηγήσει σημαντικό αριθμό διδακτορικών και πτυχιικών εργασιών, Ελληνικών και Αλλοδαπών Πανεπιστημίων. Σήμερα οι συνεργάτες του έχουν καταξιωθεί σε θέσεις ΔΕΠ όλων των βαθμίδων σε ΑΕΙ, Καθηγητές ΤΕΙ και Ερευνητικών Κέντρων στην Ελλάδα και στο εξωτερικό.

β) Στο πλαίσιο απασχόλησης σε παραγωγικές σχολές και σχολές Επιμόρφωσης από το 1978 κατά διαστήματα.

Η διδασκαλία καλύπτει αριθμό μαθημάτων, που περιλαμβάνουν τα εξής θέματα:

- Εφαρμοσμένη Στατιστική
- Ραδιομετεωρολογία
- Τηλεπικοινωνίες - Γραμμές Μεταφοράς Ενέργειας
- Φυσική Περιβάλλοντος.

5. ΕΠΙΣΤΗΜΟΝΙΚΗ ΔΡΑΣΤΗΡΙΟΤΗΤΑ

1972 - 1973:

Η επιστημονική του δραστηριότητα ξεκινάει ουσιαστικά το 1972, οπότε και άρχισε τη διπλωματική του εργασία. Απασχολήθηκε με την πρωτότυπη σχεδίαση και κατασκευή μιας συσκευής μετεωρολογικού ακουστικού Radar.

Η εργασία ολοκληρώθηκε το 1973 με τη λειτουργία της συσκευής σαν σύνολο στον εργαστηριακό χώρο.

1973 - 1976:

Την περίοδο αυτή πραγματοποίησε το διδακτορικό του με θέμα τη μελέτη και κατασκευή μιας συσκευής ακουστικού Radar ικανής να πραγματοποιήσει, για πρώτη φορά τότε, ποιοτικές μετρήσεις. Η συσκευή κατασκευάστηκε και χρησιμοποιήθηκε σε σειρά πειραμάτων με θέμα τη μελέτη του οριακού στρώματος της ατμόσφαιρας και τη μελέτη των συνθηκών διάδοσης μικροκυματικών ζεύξεων εντός και εκτός πόλης. Τα πειράματα πραγματοποιήθηκαν σε συνεργασία με το ερευνητικό κέντρο της Μετεωρολογικής Υπηρεσίας της Μεγάλης Βρετανίας και του Βρετανικού Οργανισμού Τηλεπικοινωνιών. Επίσης ασχολήθηκε με τον σχεδιασμό-κατασκευή και χρήση συστημάτων απευθείας μέτρησης των βασικών μετεωρολογικών παραμέτρων με υψηλή χρονική απόκριση και ακρίβεια. Τα όργανα αυτά χρησιμοποιούνται μέχρι σήμερα από την διεθνή επιστημονική

κοινότητα τροποποιημένα και εξελιγμένα από γνωστούς επιστημονικούς οίκους για ένα μεγάλο φάσμα εφαρμογών.

Από το 1976 και μετά ξεκινά η ελεύθερη έρευνα έξω από το πλαίσιο του διδακτορικού. Στα χρόνια που ακολούθησαν εργάστηκε τόσο στο εξωτερικό όσο και στο εσωτερικό έχοντας συνεργασίες με μεγάλο αριθμό ερευνητικών και άλλων φορέων.

Σχεδίασε νέα επιστημονικά όργανα για μετρήσεις στην ατμόσφαιρα, (επιτόπιες ή από απόσταση μετρήσεις) και οργάνωσε πειράματα, που καλύπτουν ένα μεγάλο μέρος της φυσικής της ατμόσφαιρας και της μετεωρολογίας με έμφαση στην χαμηλή τροπόσφαιρα και στο δομημένο περιβάλλον.

Οι μελέτες - εργασίες, που αποτυπώνονται (στην Αγγλική Γλώσσα) στον πίνακα που ακολουθεί, δίνουν τα απαραίτητα στοιχεία, όπως τις επιστημονικές περιοχές που αναφέρονται, τις συνεργασίες και τις χρηματοδοτήσεις. Τα δημοσιεύματα που προέκυψαν παρουσιάζονται στον κατάλογο των δημοσιεύσεων στο δεύτερο τεύχος του βιογραφικού σημειώματος.

6. ΕΠΙΣΤΗΜΟΝΙΚΕΣ ΣΥΝΕΡΓΑΣΙΕΣ ΜΕ ΆΛΛΑ ΙΔΡΥΜΑΤΑ

(Αναφέρονται μόνον οι σημαντικότερες και πλέον αντιπροσωπευτικές)

1. University College London - Dept. of Electronic and Electrical Eng., U.K.
2. British Meteorological Office - Cardington Research Center, U.K.
3. National Oceanic and Atmospheric Administration - Wave Propagation Lab. Colorado, USA.
4. Cooperative Institute for Environmental Research - University of Colorado, USA.
5. Institute "Rudjer Boskovic", Yugoslavia.
6. Kernforschungszentrum Karlsruhe Institut, fur Radiochemie, Germany.
7. Κέντρο Έρευνας και Τεχνολογίας της Ελληνικής Αεροπορίας.
8. Δημόσια Επιχείρηση Ηλεκτρισμού Ελλάδας.
9. Research Center, The Netherlands Royal Meteorological Office, Cabauw, NL.
10. Bedford Institute of Oceanography, Halifax, Canada.
11. University of Uppsala - Dept. of Meteorology, Sweden.
12. British Post-Office-Research Center, Martlesham, U.K.
13. Imperial College London, U.K.
14. Γενική Γραμματεία Έρευνας και Τεχνολογίας.
15. Ερευνητικό Κέντρο Ελληνικού Πολεμικού Ναυτικού.

16. Πολυτεχνείο του Torino.
17. Swedish Royal Academy.
18. Εθνικό Μέτσοβο Πολυτεχνείο - Εργαστήρια Ναυπηγικής και Αεροδυναμικής-Χημείας Περιβάλλοντος.
19. Watenfall, (Επιχείρηση Ηλεκτρισμού της Σουηδίας).
20. Πανεπιστήμιο Αιγαίου - Τμήμα Περιβάλλοντος.
21. ETBA.
22. Dundee University - Depts. of Dermatology and Physics, U.K.
23. Telespazio S.P.A., Ιταλία.
24. University de L' Aquila, Ιταλία.
25. National University of Ireland (Univ. of Galway).
26. K.F.A., Julich, Germany.
27. Science and Engineering Research Council, UK.
28. Universite' P. et M. Curie - Service d' Aeronomie, UK.
29. University of Reading, UK.
30. Free University, Berlin, Germany.
31. C.N.R.S., France.
32. University College of Wales, UK.
33. Dundee Univ. Physics Dept., UK.
34. Αριστοτέλειο Παν/μιο Θεσσαλονίκης, διάφορα Εργαστήρια.
35. Building Research Establishment, UK.
36. ΕΚΕΦΕ Δημόκριτος, διάφορα Ινστιτούτα και Εργαστήρια
37. B.B.R.I., Belgium.
38. Κέντρο Ανανεώσιμων Πηγών Ενέργειας.
39. Fraunhofer Institute Society, Germany.
40. J.R.C. ISPRA, E.U.
41. Georgian Academy of Sciences.
42. Cyprus Institute, Cyprus.
43. La Trobe University, Australia.
44. Harvard School of Public Health.

7. ΜΕΛΟΣ ΕΠΙΣΤΗΜΟΝΙΚΩΝ ΕΝΩΣΕΩΝ - ΕΠΑΓΓΕΛΜΑΤΙΚΕΣ ΑΔΕΙΕΣ

1. British Royal Meteorological Society (RMS) - Fellow.
2. Τεχνικό Επιμελητήριο Ελλάδας (ΤΕΕ) - Μέλος.
3. Ελληνική Μετεωρολογική Εταιρεία (ΕΜΤΕ) - Fellow.
4. British Institution of Electronic and Radio Eng., (IERE) – Graduate.
5. Institute of Electrical Eng. (IEE) - Fellow.

6. British Chartered Eng (C.Eng).
7. European Association for the Science of Air Pollution, (EURASAP) - Εθνικός Εκπρόσωπος και Μέλος.
8. European Wind Energy Association (EWEA) - Μέλος.
9. Hellenic Wind Energy Association - Ιδρυτικό Μέλος.
10. European Environmental Research Organization (EERO) – Μέλος.
11. Ινστιτούτο Ηλιακής Τεχνικής, Μέλος.
12. Αλλοδαπό Μέλος της Γεωργιανής Ακαδημίας Επιστημών.
13. Αλλοδαπό Μέλος της Ρωσικής Ακαδημίας Φυσικών Επιστημών.

8. ΆΛΛΕΣ ΕΠΑΓΓΕΛΜΑΤΙΚΕΣ ΔΡΑΣΤΗΡΙΟΤΗΤΕΣ

1. Μέλος από το 1980 και από το 1987 μέχρι το 1990 αντιπρόεδρος του Διοικητικού Συμβουλίου της Ελληνικής Μετεωρολογικής Εταιρείας -ΕΜΤΕ.
2. Αντιπρόεδρος του Διοικητικού Συμβουλίου του Ινστιτούτου Ωκεανογραφικών και Αλιευτικών Ερευνών - ΙΩΚΑΕ (1982-1984).
3. Συνεργάτης του Κέντρου Έρευνας και Τεχνολογίας της Ελληνικής Αεροπορίας - ΚΕΤΑ - (1980-1981).
4. Δ/ντής του Ινστιτούτου Μετεωρολογίας και Φυσικής του Ατμοσφαιρικού Περιβάλλοντος του Εθνικού Αστεροσκοπείου Αθηνών (1989 - 99).
5. Συγκλητικός του Πανεπιστημίου Αθηνών, (1986-1988,1990-1992, 1999-2010).
6. Εθνικός Εκπρόσωπος της Ελλάδας για προγράμματα αιολικής ενέργειας, 1983, για την Ίδρυση Ευρωπαϊκού Κέντρου Παρατηρήσεων της Γης, 1991-95 και Περιβάλλον και Κλίμα, 1994-99.
7. Ιδρυτικό Μέλος του του European Association for Environmental Management Education, Κοινοπραξία 15 Ευρωπαϊκών Πανεπιστημίων, (1991-2006).
8. Ιδρυτικό Μέλος και Επιστημονικός Υπεύθυνος του Κέντρου Ενεργειακής Εκπαίδευσης του Πανεπιστημίου Αθηνών και της ΕΕ, 1993-σήμερα.
9. Εκλεγμένο Μέλος του Ειδικού Επιστημονικού Συμβουλίου του ΝΑΤΟ για την "Science of Global Environmental Change", (1993-98).
10. Μέλος Δ.Σ. της Εθνικής Διαστημικής Επιτροπής, (1994 - 2000).
11. Εκλεγμένο μέλος και Αντιπρόεδρος του Επιστημονικού Συμβουλίου του Οργανισμού Περιβάλλοντος της Ευρωπαϊκής Ένωσης (1994- 2002).
12. Μέλος της επιτροπής παρακολούθησης της Ελληνικής Εταιρείας προστασίας της Φύσης (1996 - σήμερα).
13. Πρόεδρος του Επιστημονικού Συμβουλίου του Εθνικού Κέντρου Θαλασσίων Ερευνών (1996-99).
14. Μέλος του Διοικητικού Συμβουλίου του Κοινού Ερευνητικού Κέντρου της Ευρωπαϊκής Επιτροπής, (2002 – 2004).
15. Μέλος του Διοικητικού Συμβουλίου του Ινστιτούτου Ηλιακής Τεχνικής, (2001 – σήμερα).
16. Πρόεδρος και Διευθύνων Σύμβουλος του Ευγενιδείου Θεραπευτηρίου του Πανεπιστημίου Αθηνών, (2003 – 2007).
17. Αντιπρόεδρος Ωνάσειου Καρδιοχειρουργικού Κέντρου, (2004 – 2007).
18. Πρόεδρος και Γενικός Γραμματέας της Α.Ε. Διαχείρισης της Πανεπιστημιακής Περιουσίας, (2007 – 2010).
19. Αντιπρόεδρος της Steering Committee για το επιχειρησιακό σχέδιο Ενεργειακής Αποδοτικότητας των κτηρίων, Υπουργείο Ανάπτυξης, (2008-2009).

20. Μέλος του Μαριοπουλείου Καναγκινείου Ιδρύματος Επιστημών Περιβάλλοντος, (2008 – σήμερα).

9. ΔΙΑΚΡΙΣΕΙΣ-ΒΡΑΒΕΥΣΕΙΣ

1. **Fellow of the Royal Meteorological Society, (FRMS, UK)**
2. **Fellow of the Hellenic Meteorological Society, (GR)**
3. **Fellow of the Institute of Electrical Eng., (FIEE, UK)**
4. **Foreign Member of the Georgian Academy of Sciences.**
5. **First Prize, Best Practice, Laboratory of Meteorology, ECO City, 2008.**
6. **Επιστημονική διάκριση για το συνολικό επιστημονικό έργο από την Ρωσική Ακαδημία Επιστημών, το 2008.**
7. **Diploma No 30/5/2008 της Γεωργιανής Ακαδημίας Φυσικών Επιστημών για Εξαιρετική Συνεισφορά στις Σύγχρονες Επιστήμες και στην Τεχνολογία.**
8. **Διάκριση Αριστείας ως υπεύθυνος του προγράμματος «Κοινωνία της Πληροφορίας» από το Υπουργείο Οικονομίας και Οικονομικών, της Ελλάδας το 2009.**
9. **Διάκριση Αριστείας ως υπεύθυνος του Ευρωπαϊκού Προγράμματος «Dragon» από την European Space Agency και το National Remote Sensing Center της Κίνας το 2012.**
10. Άλλες Διακρίσεις.
 - A) Αρχων Νοτάριος του Πατριαρχείου Αλεξανδρείας για την συμβολή του στην ανωτάτη εκπαίδευση, το 2009.
 - B) Απονομή του σταυρού του Αγίου Γεωργίου της Εκκλησίας της Ελλάδος για την συμβολή του στην εκπαίδευση και στο κοινωνικό έργο της Εκκλησίας το 2010.

10. ΔΙΔΑΣΚΑΛΙΑ - ΣΕΜΙΝΑΡΙΑ ΥΣΤΕΡΑ ΑΠΟ ΠΡΟΣΚΛΗΣΕΙΣ ΕΡΕΥΝΗΤΙΚΩΝ ΚΕΝΤΡΩΝ - ΑΝΩΤΑΤΩΝ ΕΚΠ/ΚΩΝ ΙΔΡΥΜΑΤΩΝ ΤΟΥ ΕΞΩΤΕΡΙΚΟΥ

(αναφέρονται τα πλέον σημαντικά)

1. University College London - University of London, U.K.
2. British Meteorological Office, Bracknel, U.K.
3. National Oceanic and Atmospheric Administration – Wave Propagation Laboratory, Boulder, Colorado, USA.
4. Royal Meteorological Institute, Cabauw, Holland.
5. Uppsala University, Meteorological Institute, Sweden.
6. Σε διάφορα Ιδρύματα εσωτερικού.

7. Belford Institute of Oceanography, Halifax, Canada.
 8. National Physical Laboratory, New Delhi, India.
 9. International Center for Theoretical Physics of Trieste Italy.
 10. Polytechnic School of Torino, Italy.
 11. Fraunhofer Institute Society, FhG/IFU, Germany.
 12. Institute of Electrical Eng., IEE, U.K
 13. Trier University, Germany
 14. Air Infiltration and Ventilation Centre, University of Warwick Science Park, Coventry, Great Britain. Invited speaker.
 15. Harvard School of Public Health.
- Σημείωση: Δεν αναφέρονται οι κεντρικές ομιλίες σε Συνέδρια και Επιστημονικές συναντήσεις

11. ΚΡΙΤΗΣ ΕΠΙΣΤΗΜΟΝΙΚΩΝ ΕΚΔΟΣΕΩΝ - ΕΠΙΣΗΜΩΝ ΕΡΕΥΝΗΤΙΚΩΝ ΦΟΡΕΩΝ - ΔΙΟΡΓΑΝΩΤΗΣ ΣΥΝΕΔΡΙΩΝ

1. Εξωτερικός κριτής διδακτορικών διατριβών σε Πανεπιστήμια του εσωτερικού και του εξωτερικού.
2. Κριτής σε Εθνικά και Διεθνή Ερευνητικά προγράμματα, (π.χ. ΓΓΕΤ , S.R.C UK κλπ.).
3. Κριτής Επιστημονικών Περιοδικών, (π.χ. Atmospheric Environment, J.ASA, Climate Research, Boundary Layer Meteorology, Quarterly J. of Royal Met. Society, Int. J. of Remote Sensing, σε όλα τα περιοδικά του Elsevier energy and fuels journals* κ.α.).
4. Εθνικά και Διεθνή Ερευνητικά Συνέδρια και Οργανώσεις:
 - Συνδιοργανωτής του Διεθνούς Συνεδρίου "Euromech 173" στους Δελφούς το 1983.
 - Συνδιοργανωτής του Διεθνούς Συνεδρίου "Wind Energy Applications" στους Δελφούς το 1985.
 - Οργανωτής του Διεθνούς Συνεδρίου "ISARS 92" στην Αθήνα το 1992.
 - Οργανωτής του Διεθνούς Συνεδρίου "Solar Energy and Energy Saving in Buildings in the Urban Environment" στην Αθήνα 1994.
 - Οργανωτής του Διεθνούς Συνεδρίου "Training and Education in the Energy Field" Αθήνα 1995.
 - Οργανωτής του Διεθνούς Συνεδρίου "Passive Cooling of Buildings" Αθήνα 1995

- Οργανωτής του Διεθνούς Συνεδρίου "Optimization of Day Lighting in the Retrofitting Process of Commercial Buildings", στην Αθήνα 1996.
- Οργανωτής του 3ου Πανελληνίου Συνεδρίου "Μετεωρολογίας, Κλιματολογίας & Φυσικής της Ατμόσφαιρας" Αθήνα, 25-27 Σεπτ. '96
- Οργανωτής του 4ου Ευρωπαϊκού Earth Observation Systems (EOS) Workshop στην Σαντορίνη, Οκτ. 2-3, 1997.
- Πρόεδρος του 5ου Συνεδρίου «Environmental Science and Technology», Lesbos, Greece 1997.
- Πρόεδρος του Συνεδρίου « Ενέργεια και Περιβάλλον στην Νησιωτική περιοχή του Αιγαίου», Άνδρος, Ελλάδα 2-3/11/2001.
- Συνδιοργανωτής του Διεθνούς Συμποσίου, 'International Fire Prevention and Mitigation Symposium, Harvard University and Cyprus International Institute, Athens 2008.
- Συνδιοργανωτής του Διεθνούς Συνεδρίου PALENC 2010, Ρόδος, Ελλάδα 29/9-1/10/2010.
- Επιστημονική Επιτροπή του Διεθνούς Επιστημονικού Συνεδρίου «Ενεργειακή Πολιτική και Κλιματική Αλλαγή», Αθήνα, Ελλάδα 7 Οκτωβρίου 2010.
- Πρόεδρος Επιστημονικής Επιτροπής του Διεθνούς Επιστημονικού Συνεδρίου «Conference on Meteorology – Climatology and Atmospheric Physics», Ιούνιος 2012, Αθήνα, Ελλάδα.
- Διοργανωτής Σχολείων Επιμόρφωσης.

12. Κύρια επιτεύγματα κατά την άσκηση του επαγγέλματος

1. Αναβάθμιση του Εργαστηρίου Μετεωρολογίας του Φυσικού Τμήματος του Πανεπιστημίου Αθηνών.

Σήμερα το βασικό Εργαστήριο περιλαμβάνει τις παρακάτω μονάδες/εργαστήρια:

- Εργαστήριο Ανώτερης Ατμόσφαιρας
- Εργαστήριο Τηλεπισκόπησης
- Εργαστήριο Οργανολογίας
- Εργαστήριο Ατμοσφαιρικού Οριακού Στρώματος
- Εργαστήριο Εφαρμογών Η/Υ στη Μετεωρολογία

- Κέντρο Ενεργειακής Εκπαίδευσης
- Ανοικτό Εργαστήριο Περιβαλλοντικών και Ενεργειακών Εφαρμογών
- Εργαστήριο Φυσικής Ωκεανογραφίας.

Τα ανωτέρω συνοδεύτηκαν με σοβαρή αύξηση του προσωπικού και της κινητικότητας του χώρου (αριθμός εκπαιδευομένων φοιτητών, μεταπτυχιακών φοιτητών, ερευνητικών προγραμμάτων κ.λπ.).

2. Δημιουργία του Κέντρου Ενεργειακής Εκπαίδευσης στο Πανεπιστήμιο Αθηνών.

Το Κέντρο αυτό ανέλαβε από την ίδρυσή του να υποστηρίζει τα προγράμματα εκείνα που στόχευαν στη μελέτη και στην κατανόηση της φυσικής του κτηρίου και στην εξοικονόμηση της ενέργειας. Ανέλαβε ακόμη πολλά εκπαιδευτικά προγράμματα, καθοδηγώντας νέους και έμπειρους μηχανικούς και φυσικούς στον σχεδιασμό και στην διαχείριση παλαιών και νέων κτηρίων με στόχο τον περιορισμό της καταναλισκόμενης ενέργειας για την θέρμανση και την ψύξη.

3. Δημιουργία και Λειτουργία στην Αθήνα του Μεταπτυχιακού Προγράμματος Σπουδών στο αντικείμενο, Environmental Management.

Συνέπραξε με 15 γνωστά Ευρωπαϊκά Πανεπιστήμια στην δημιουργία ενός μεταπτυχιακού προγράμματος δι επιστημονικού χαρακτήρα στην διαχείριση του περιβάλλοντος. Το πρόγραμμα αυτό λειτούργησε για οκτώ έτη στην Αθήνα αναδεικνύοντας πολλούς επιστήμονες πτυχιούχους γνωστών πανεπιστημίων. Μέχρι σήμερα συνεχίζεται η αξιοποίησή του στο Imperial College και στο Erasmus University.

4. Αναβάθμιση του Ινστιτούτου Μετεωρολογίας και Φυσικής του Ατμοσφαιρικού Περιβάλλοντος του Εθνικού Αστεροσκοπείου Αθηνών.

Η αναβάθμιση του Ινστιτούτου οδήγησε και στην αλλαγή του ονόματός του σε **Ινστιτούτο Ερευνών Περιβάλλοντος και Βιώσιμης Ανάπτυξης**. Επικεντρώνεται δε στην δημιουργία των αναφερομένων στην συνέχεια τεσσάρων νέων εργαστηρίων που υποστηρίζουν σημαντικό αριθμό προγραμμάτων και ερευνητών.

- Ακτινομετρικό Εργαστήριο
- Εργαστήριο Ατμοσφαιρικής Ρύπανσης
- Εργαστήριο Ατμοσφαιρικής Χημείας
- Εργαστήριο Βαθμονόμησης Μετεωρολογικών Οργάνων

Με βάση την υποδομή αυτή αυξήθηκε το ερευνητικό προσωπικό, η παροχή υπηρεσιών προς τρίτους και ο αριθμός και το ύψος χρηματοδότησης των ερευνητικών προγραμμάτων.

5. Αναβάθμιση του Πανεπιστημιακού Νοσηλευτικού Ιδρύματος, «Ευγενίδειο Θεραπευτήριο».

Η αναβάθμιση περιέλαβε τις ακόλουθες αλλαγές:

- Βελτίωση του θεσμικού πλαισίου
- Εγκατάσταση νέων νοσηλευτικών και ερευνητικών μονάδων
- Μείωση των λειτουργικών δαπανών
- Εκπαίδευση του νοσηλευτικού προσωπικού
- Βελτίωση της κτηριακής υποδομής

Οι ανωτέρω ενέργειες έφεραν το ίδρυμα μετά ένα έτος σε κερδοφορία η οποία συνεχίστηκε μέχρι και την ολοκλήρωση της δεύτερης διετούς θητείας οπότε και αποχώρησε από την διοίκηση.

6. Συμμετοχή στην Ίδρυση του Οργανισμού Περιβάλλοντος της Ευρωπαϊκής Ένωσης στην Κοπεγχάγη.

Ύστερα από μακροχρόνιες διαβουλεύσεις όλων των Κρατών Μελών της Ευρωπαϊκής Ένωσης, αποφασίστηκε η Δημιουργία ενός Οργανισμού για το περιβάλλον με έδρα την Κοπεγχάγη της Δανίας. Ο οργανισμός αυτός έμελλε να εξελιχθεί ως ο επίσημος εκπρόσωπος της Ένωσης και ο συνδετικός κρίκος όλων των μέχρι τότε υπηρεσιών των κρατών μελών για τα σχετικά με το περιβάλλον θέματα. Ύστερα από ανοικτή προκήρυξη και προτάσεις των κρατών μελών, επιλέχθηκε ως Αντιπρόεδρος του Επιστημονικού Συμβουλίου το οποίο Υπηρέτησε δύο θητείες, (6 έτη), που είναι το μέγιστο επιτρεπτό σύμφωνα με τον ιδρυτικό κοινοτικό κανονισμό. Από την θέση αυτή συνέβαλε στην δημιουργία δικτύων αριστείας και θεματικών κέντρων, τα οποία ανέλαβαν και επιτελούν μέχρι σήμερα το έργο εκείνο που υποστηρίζει επιστημονικά όλες τις θέσεις και ενέργειες του Κοινοβουλίου και της Επιτροπής της Ευρωπαϊκής Ένωσης και είναι υπεύθυνα για όλα τα σχετικά δημοσιεύματα και εκθέσεις για την κατάσταση του περιβάλλοντος στην Ευρώπη.

7. Συμβολή στην Αναβάθμιση και Πιστοποίηση των Οικονομικών, Τεχνικών και Ερευνητικών Διαχειριστικών Υπηρεσιών του Πανεπιστημίου Αθηνών.

Κατά την διάρκεια της θητείας μου ως Αντιπρύτανη του Πανεπιστημίου με αρμοδιότητα στα ανωτέρω θέματα κατέστη δυνατή η πιστοποίηση σύμφωνα με τις

Κοινοτικές επιταγές των αντίστοιχων υπηρεσιών του Ιδρύματος. Για να επιτευχθεί ο στόχος αυτός απαιτήθηκε ριζική αναβάθμιση του τρόπου λειτουργίας, του εξοπλισμού και της εκπαίδευσης όλων των στελεχών. Με τον τρόπο αυτό κατέστη δυνατή η συμμετοχή του Πανεπιστημίου και του καθηγητικού του προσωπικού σε όλα τα αναπτυξιακά προγράμματα στον διεθνή χώρο. Κατά την ημέρα πιστοποίησης, (τέλος 2008 και αρχή 2009), ήταν το μόνο πιστοποιημένο Ανώτατο Εκπαιδευτικό Ίδρυμα στην χώρα μας.

8. Δημιουργία και Πιστοποίηση Εργαστηρίου Ελέγχου Ποιότητας του Αέρα στο Εξωτερικό και Εσωτερικό Περιβάλλον των Κτηρίων.

Κατά την διάρκεια του 2010 ύστερα από χρηματοδότηση από την ΓΓΕΤ το έτος 2006, πιστοποιήθηκε κατά ISSO Εργαστήριο Ελέγχου ποιότητας Εσωτερικού και Εξωτερικού Περιβάλλοντος το οποίο είναι το μόνο μέχρι σήμερα στην Χώρα. Η πιστοποίηση περιλαμβάνει όργανα προσδιορισμού συγκεντρώσεων ρύπων και φυσικών παραμέτρων, τα οποία πλέον μπορούν να χρησιμοποιηθούν επισήμως σε διάφορες μελέτες και ελέγχους.

ΣΥΝΟΨΗ

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Επαγγελματική πείρα

1. Δ/ντής του Εργαστηρίου Μετεωρολογίας
2. Αντιπρόεδρος Δ.Σ. ΕΚΘΕ
3. Δ/ντής Τομέα Εφαρμογών Φυσικής
4. Διδασκαλία σε ΑΕΙ στο εξωτερικό και στην Ελλάδα, (Αθήνα, Torino, Trier)
5. Αντιπρόεδρος Δ.Σ. Ελληνικής Μετεωρολογικής Εταιρείας
6. Σύμβουλος Δημόσιων Οργανισμών
7. Διευθυντής του Ινστιτούτου Μετεωρολογίας και Φυσικής του Ατμοσφαιρικού Περιβάλλοντος, του Εθνικού Αστεροσκοπείου Αθηνών
8. Επ/κός Υπεύθυνος του Κέντρου Ενεργειακής Εκπαίδευσης
9. Μέλος Δ.Σ. της Εθνικής Διαστημικής Επιτροπής
10. Αντιπρόεδρος του Επιστημονικού Συμβουλίου της Ευρωπαϊκής Υπηρεσίας Περιβάλλοντος
11. Πρόεδρος του Επιστημονικού Συμβουλίου του Εθνικού Κέντρου Θαλασσίων Ερευνών
12. Μέλος Δ.Σ. του Ινστιτούτου Ηλιακής Τεχνικής
13. Μέλος του Δ.Σ. του Κοινού Ερευνητικού Κέντρου της Ευρωπαϊκής Ένωσης
14. Αντιπρύτανης του Εθνικού και Καποδιστριακού Πανεπιστημίου Αθηνών
15. Πρύτανης του Εθνικού και Καποδιστριακού Πανεπιστημίου Αθηνών

Αντικείμενα στα οποία επικεντρώνεται το έργο

- 1. Φυσική Δομημένου Περιβάλλοντος - Ατμοσφαιρική ρύπανση**
- 2. Ανάπτυξη τεχνολογίας Περιβαλλοντικών μετρήσεων, επιτόπιων και από απόσταση**
- 3. Μελέτη του ατμοσφαιρικού οριακού στρώματος της ατμόσφαιρας**
- 4. Ήπιες Μορφές και Εξοικονόμηση Ενέργειας**
- 5. Μίκρο Κλιματολογία - Κλιματικές Αλλαγές**

Τίτλοι

Philosophy Degree (Ph.D.) University College London, Doctor of Science (D.Sc.) University of Athens, Fellow of the Institute of Electrical Engineer (FIEE, UK), Chartered Engineer (C.E,UK), Fellow of the Royal Meteorological Society (FRMS, UK), Member of the Technical Chamber of Greece, Fellow of the Hellenic Meteorological Society (FHMS, GR), Member of the European Environmental Research Organization (EERO). Foreign Member of the Georgian Academy of Sciences, Foreign Member of the Russian Academy of Natural Sciences.

Δεύτερο Μέρος

1. PROJECTS, FUNDING and COLLABORATIONS

1. Design, construction and calibration of a bistatic acoustic sounder, suitable for quantitative measurements in the ABL.

Country : London, UK.

Time period : 1976-77.

Collaborations : University College London - British Meteorological Office.

Funding : Science Research Council, UK.

2. Design, construction and evaluation of an atmospheric turbulence probe

Country : Athens GR.- London UK.

Time period : 1977-79.

Collaborations : University of Athens - University College London - British Met. Office.

Funding : Science Research Council - British Met. Office, UK.

3. Design and construction of a high resolution acoustic sounder.

Country : Athens GR.- London UK.

Time period : 1978-79.

Collaborations : University of Athens - University College London.

Funding : Science Research Council, UK.

4. Design, construction and testing of direct instrumentation in conjunction with high frequency acoustic sounders.

Country : Boulder USA.

Time period : 1979-81.

Collaborations : University of Athens - Boulder Atmospheric Observatory NOAA.

Funding : NOAA/WPL

5. Study of the sea-breeze front penetration at the Saronicos gulf.

Country : Athens GR.

Time period : 1981.

Collaborations : University of Athens.

Funding : Gen.Secr. for Research and Technology, GR.

6. Study of the ABL structure over a Sharp mountain.

Country : Athens GR.
Time period : 1981-82.
Collaborations : University of Athens.
Funding : Gen.Secr. for Research and Technology, GR.

7. Air pollution study over Athens.

Country : Athens GR.
Time period : 1982.
Collaborations : University of Athens - Instit. Rudjer Boskovic
Yugoslavia.
Funding : Gen.Secr. for Research and Technology, GR.

8. Air pollution study of the Ptolemais valley, present state.

Country : Ptolemais GR.
Time period : 1982.
Collaborations : University of Athens - National Observatory of Athens.
Funding : Public Power Corp. GR.

9. Study of the tidal air flow over the Attica valley.

Country : Athens, GR.
Time period : 1983-84.
Collaborations : University of Athens.
Funding : Ministry of Planning, Housing and Environment GR./ CEC.

10. Air pollution study of the Megalopolis industrial valley.

Country : Megalopolis GR.
Time period : 1983-84
Collaborations : University of Athens - National Observatory of Athens
Funding : Public Power Corporation, GR.

11. Study of the daytime and nighttime boundary layer at Cabauw

Country : Cabauw, The Netherlands.
Time period : 1983-84.
Collaborations : University of Athens - The Netherlands Royal
Meteorological Office, KNMI.
Funding : KNMI, The Netherlands.

12. Study of the air pollutant transport from the Thriassion valley to the Athens basin.

Country : Thriassion valley.
Time period : 1983-84.
Collaborations : University of Athens.
Funding : Borough of Nikaia, GR.

13. Study of the flow field behind large and medium size wind turbine.

Country : Gotland, Sweden.
Time period : 1983-84.
Collaborations : University of Athens - University of Uppsala - Power Corp. Sweden.
Funding : Public Power Corp. Sweden.

14. Study of the turbulent flow field over the Helicopter deck of the frigate Elli.

Country : Saronicos gulf, GR.
Time period : 1984-85.
Collaborations : University of Athens - National Technical University of Athens
Funding : Navy, GR.

15. Study of the air transport over Athens and the greater Athens area.

Country : Athens, GR.
Time period : 1984-85.
Collaborations : University of Athens - National Observatory of Athens.
Funding : Ministry of Planning, Housing and Environment GR. / CEC.

16. Air pollution study of the Ptolemais valley, future state.

Country : Ptolemais, GR.
Time period : 1984-85.
Collaborations : University of Athens.
Funding : Public Power Corporation. GR.

17. Design and construction of a prototype acoustic sounder system for commercial applications.

Country : Athens, GR.
Time period : 1985-86.

Collaborations : University of Athens.
Funding : Gen.Secr. for Research and Technology, GR.

18. Flow field study over complex terrain, validation with arithmetic models.

Country : Marmari, Evia, GR.
Time period : 1985-86.
Collaborations : University of Athens - Greek Public Power Corporation.
Funding : Public Power Corporation, GR.

19. Wind potential study for Attikoviotia, GR.

Country : Attica, GR.
Time period : 1986-87
Collaborations : University of Athens.
Funding : Public Power Corporation, GR.

20. Analytical study of the short distance air pollutant transport from Thriassion bay to the Athens basin.

Country : Attica, GR.
Time period : 1986-87.
Collaborations : University of Athens - University of the Aegean.
Funding : CEC - Ministry of Planning, Housing and Environment, GR.

21. Environmental study of the Thisvi alumina industrial area.

Country : Viotia, GR.
Time period : 1987-88.
Collaborations : University of Athens.
Funding : Hellenic Alumina, GR.

22. Study of the wind and solar potential at Halki.

Country : Halki, GR.
Time period : 1987-88.
Collaborations : University of Athens.
Funding : Bureau for the dev/ment of remote areas, GR.

23. Anti-frost study of the Argolida and Arta agricultural area.

Country : Argolida - Arta, GR.
Time period : 1988-90.

Collaboration : University of Athens.
Funding : Hellenic Agricultural Insurance Agency - Gen.Secr. for
Research and Technology, GR.

24. Study of the coastal internal boundary layer, flat terrain.

Country : Gotland, Sweden.
Time period : 1988-90.
Collaborations : University of Uppsala - University of Athens.
Funding : Public Power Corporation, Sweden.

25. Climatological condition study of the air pollution episodes in Athens, period 1983-87.

Country : Athens, GR.
Time period : 1988-89.
Collaborations : University of Athens.
Funding : Ministry of Planning, Housing and Environment, GR.

26. Design and construction of a new ozonesonde.

Country : Athens, GR.
Time period : 1989-90.
Collaborations : University of Athens.
Funding : Gen. Secr. for Research and Technology, GR.

27. Environmental impact assessment of the Liossia land-field.

Country : Attika, GR.
Time period : 1989-90.
Collaborations : University of Athens - National Technical University
of Athens.
Funding : West Attica Local Councils, GR.

28. Study of the toxic and organic compounds in private accommodations.

Country : Athens, GR.
Time period : 1989-91.
Collaborations : University of Athens - National Technical University
of Athens.
Funding : Ministry of Health, Welfare and Social Security, GR.

29. Environmental impact assessment study of the Cassandra mines.

Country : Khalkidhiki, GR.
Time period : 1989-91.
Collaborations : University of Athens - National Technical University
of Athens.
Funding : Cassandra Mines, GR.

30. Study of air pollution concentrations in hospitals.

Country : Athens, GR.
Time period : 1989-91. New contract 1991-continued.
Collaborations : University of Athens - National Technical University
of Athens.
Funding : Ministry of Health, Welfare and Social Security, GR.

31. International intercomparison experiment of Dobson ozone photospectrometers at LKO Arosa.

Country : Arosa, Switzerland.
Time Period : 1990.
Collaborations : University of Athens - Research Institutions from 20 countries.
Funding : W.M.O.

32. Study of the discomfort index and air pollution effects on public health.

Country : Athens.
Time Period : 1989-90.
Collaborations : University of Athens.
Funding : Ministry of Health, Welfare and Social Security, GR.

33. Study of the UV radiation, atmospheric ozone, heavy metals with-in the greater Athens area.

Country : Athens.
Time Period : 1990-91.
Collaborations : University of Athens.
try of Heal : University of Athens - National Technical University
of Athens.
Funding : Ministry of Welfare and Social Security.

34. EEC PASSYS - Test Site Manager.

Country : Athens.
Time Period : 1990-1992

Collaborations : Center for Renewable Energy Sources -National Observatory of Athens and Protechna Ltd. and a large number of European partners.

Funding : CEC and CRES.

35. Study of the horizontal and vertical ozone transport over Northern Europe.

Country : Northern Europe.

Time Period : 1990-1992

Collaborations : A large number of European partners.

Funding : CEC.

36. Environmental impact study of the geothermal PPC Nissyros power station.

Country : Nissyros, GR.

Time Period : 1990-92.

Collaborations : University of Athens and L-Technical.

Funding : Public Power Corp., GR.

37. Study of the air flow characteristics over complex terrain

Country : Andros island, Greece.

Time Period : 1991-92

Collaborations : Center for Renewable Energy Sources CEC (Joule I program) and IMPAE/NOA.

Funding : CEC.

38. Air pollution study over Thessaloniki.

Country : Thessaloniki, Greece.

Time period : 1991-92.

Collaborations : University of Thessaloniki - University of Athens - National Observatory of Athens
Gr. - KFA Jülich Germany.

Funding : Gen. Secr. for Research and Technology, GR. and Germany.

39. Daylighting CEC Program.

Country : Athens, Greece.

Time period : 1991-93

Collaborations : National Observatory of Athens and a large number of European partners.

Funding : CEC.

40. Study of the wind turbine wake over complex terrain.

Country : Samos island, Greece.

Time period : 1991-93

Collaborations : University of Athens - National Observatory of Athens.

Funding : Gen. Secr. for Research and Technology, GR.

41. Ozone measurements, UV Solar Radiation as related with the human exposure.

Country : Athens. Gr.

Time period : 1990-93

Collaborations : National Observatory of Athens.

Funding : CEC.

42. Study of the South European cycles of air pollution.

Country : Athens and other European cities.

Time period : 1992-93

Collaborations : National Observatory of Athens and a large number of
European partners

Funding : CEC.

43. Study of temperature and wind fields around a wind fan used for frost protection.

Country : Argolida, GR.

Time period : 1992-continued.

Collaborations : University of Athens.

Funding : Gen.Secr. of Research and Technology, GR.

44. Programme EPOCH-40 -Forest Fire protection

Country : Attica, GR.

Time period : 1992 - 1994

Collaborations : University of Athens and a number of European partners.

Funding : CEC

45. CEC PASCOOL (Passive Cooling for Buildings)

Country : Many European Countries

Time period : 1992- 1995

Collaborations : University of Athens (European Coordinator) and a large number of European partners.

Funding : CEC

46. Formation of the National Environmental Informatics Network

Country : Greece

Time period : 1992

Collaborations : Dept. of Informatics - Dept. of Applied Physics, University of Athens

Funding : CEC

47. CEC Daylighting European Atlas

Country : Many European Countries

Time period : 1993- 1995

Collaborations : National Observatory of Athens, (European Coordinator) and a Number of European partners.

Funding : CEC

48. Program SAVE : Creation of a central Institution for energy efficiency education in Greece, CIENE.

Country : Greece

Time period : 1993

Collaborations : University of Athens and a number of European and National partners.

Funding : CEC

49. Program SAVE: Short educational structure on energy efficiency in buildings

Country : Greece

Time period : 1993-94

Collaboration : University of Athens and a number of European and National partners.

Funding : CEC

50. Program Compass

Country : European Community Countries

Time period : 1993-94

Collaboration : University of Athens and a number of European and National partners.

Funding : CEC

51. Environmental Impact Assessment of the New Athens North circular Road

Country : Greater Athens Area

Time Period : 1993

Collaboration : National Public and Private Organisation

Funding : Ministry of Planning, Housing and Environment, GR.

52. Environmental Impact Assessment of the Corfu and Kefallinia airports

Country : Corfu - Kefallinia GR.

Time period : 1993

Collaboration : National Public and Private Organizations

Funding : Ministry of Planning, Housing and Environment, GR.

53. Transport of ozone and Strata-Troposphere exchange at the South Europe

Country : Athens, Greece

Time Period : 1994- 1995

Collaboration : University of Athens, FISBAT, Italy

Funding : Gen. Sec. Research and Technology, GR.

54. Program STRIDE - Formation of a National Hydrological and Meteorological Data Base - Hydroscope.

Country : Greece.

Time period : 1992-94.

Collaboration : National Observatory of Athens and a large number of National partners.

Funding : CEC.

55. Experimental and Theoretical study of the Atmospheric Boundary Layer of the Attica Basing.

Country : Athens

Time period : 1993 - 1995

Collaborations : University of Athens,- National Observatory of Athens.

Funding : Gen.Secr. Research and Technology, GR.

56. Study of the Catabatic Flows in Attica.

Country : Athens
Time period : 1994 - 1995
Collaborations : University of Athens,- EKEFE Democritus.
Funding : Gen.Secr. Research and Technology, GR.

57. European Audit Project to optimize indoor air quality and Energy consumption in office buildings.

Country : Many European Sites
Time Period : 1994 - 1995
Collaboration : University of Athens and ten European laboratories
Funding : CEC

58. Sodar for siting and operating of wind energy converters

Country : Three European Sites
Time Period : 1994 - 1995
Collaboration : National Observatory of Athens and four European Labs
Funding : CEC

59. Daylight for buildings.

Country : Greece and other European Locations.
Time Period : 1994 - 1996
Collaboration : ESBENSEN and other European Research Centers
and Universities. Also the National
Observatory of Athens.
Funding : EEC, Joule Program.

60. European Data Base for Indoor Pollutants.

Country : Greece and other European Locations.
Time period : 1994 - 1996
Collaboration : TNO and other European Institutions.
Funding : EEC, Joule Program.

61. Creation of an Educational Network on the Energy efficiency of Third Countries.

Country : Greece
Time Period : 1994 - 1995
Collaboration : None
Funding : EEC, Save Program

62. BUILT - Energy Efficiency of Building in European and Latin American Countries.

Country : Greece, France, Spain, UK, Venezuela, Brazil,
Argentina and Mexico.

Time Period : 1995 - 1997

Collaboration : Various European and Latin American Institutes

Funding : EEC, ALFA Program

63. Rehabilitation of Multi use Buildings.

Country : Greece

Time Period : 1995 - 1997

Funding : EEC, SAVE Program, DG XVII.

64. Creation of an Educational Structure on the Use of Daylighting in Buildings.

Country : Greece and Germany

Time Period : 1995 - 1997

Collaboration : TRANSOLAR, National Observatory of Athens

Funding : EEC, ALTENER Program, DG XVII.

65. Design of the Athens lower atmosphere meteorological station and instrumentation of the national air pollution monitoring network with meteorological sensors.

Country : Greece

Time period : 1996

Collaboration : None

Funding : Ministry of Planning, Housing and Environment, GR and
EEC regional development fund.

66. Creation an air pollution operational center. Control and implementation of restricting measures for the Athens Greater Area.

Country : Greece

Time period : 1996

Collaboration : South Coast Air Quality Management District (USA)
and a number of Greek

Universities.

Funding : Ministry of Planning, Housing and Environment, GR
and ECC regional development

fund.

67. Optimization of day lighting in the retrofitting process of commercial buildings.

Country : Greece
Time period : 1995-1996
Funding : EEC, SAVE Program, DG XVII.

68. THERMIE : Retrofitting of an Office Building for Energy Conservation in Heating, Cooling and Lighting, and for Improved Indoor Conditions.

Country : Greece
Time period : 1994 -1997
Collaboration : National Observatory of Athens, Meletitiki Ltd
Funding : EEC, Hellenic Ministry for Development

69. Retrofit of Residential Buildings – (Case studies for Hellenic buildings)

Country :Greece
Time Period :1996-1997
Funding :EEC, EPIQR Programme, DG XVII.

70. Air pollution study of the greater Thessaloniki industrial area – influence from the Eordea industrial area.

Country : Greece
Time Period :1998-1999
Collaboration : NKUA and other Greek Institutions
Funding :Ministry of Planning, Housing and Environment GR.

71. Operator of the Athens upper air station

Country : Greece
Time Period :1998-2000
Collaboration : None
Funding :Ministry of Planning, Housing and Environment GR.

72. The Icarus project

Country : Southern Europe
Time Period :1998-2000
Collaboration : Many European Research Centers
Funding : DGXII E.U.

73. The PV Cooling Project

Country : Europe
Time Period :1997-1999
Collaboration : Other European Research Centers
Funding : DGXII E.U.

74. Study of the air pollution of the Greater Aegean Valley

Country : Northern Greece
Time Period :1998-1999
Collaboration : Other Greek Universities and Research Labs.
Funding : Greek Public Power Co.

75. The APHRODITE Project

Country : Cyprus
Time Period :1998-1999
Collaboration : Other Greek Universities and Research Labs
Funding : DGXII E.U.

76. Study of the Air Pollution Indices

Country : Europe
Time Period :1999-2000
Collaboration : Other European Inst.
Funding : J.R.C. E.U.

77. Creation of the National Environmental Laboratories Network

Country : Greece
Time Period :1999-2001
Collaboration : Other Laboratories.
Funding : General Secretariat for Research and Technology.

78. The ENVISYS Project

Country : Europe
Time Period :1997-1999
Collaboration : Other European and Greek Research Labs
Funding : DGXIII E.U.

79. The EMMA Project

Country : Europe
Time Period :1997-1999

Collaboration : Other European and Greek Research Labs
Funding : DGXIII E.U.

80. The LEONARDO DA VINCI Project

Country : Italy
Time Period : 1996-2000
Collaboration : Other European Institutions
Funding : DG XXII - EDUCATION, TRAINING AND YOUTH

81. Monitoring the vertical distribution of ozone over Saronikos Gulf.

Country : Greece
Time Period : 1999 - 2000
Funding : Ministry of the Environment, City Planning and Public Works
and UNEP

82. Design of an integrated system for continuous monitoring and reduction of VOCs emissions from the use of organic solvents and the transportation of petrol in Bulgaria.

Country : Greece - Bulgaria
Time Period : 2000-2001
Collaboration : EEA Bulgaria and Terra Nova Ltd., Athens
Funding : Ministry of the Environment, City Planning and Public Works

83. The PROMED Project.

Country : Europe
Time Period : 2000- 2001
Collaboration : Other European Institutions
Funding : DGXI E.U.

84. Evaluation of acoustic sounder operation at the El. Venizelos International Airport.

Country : Greece
Time Period : 2000- 2003
Collaboration : Other Greek Institutions
Funding : El. Venizelos International Airport

85. Urban Aerosol.

Country : Europe
Time Period : 2002- 2003
Collaboration : Other European Institutions
Funding : DGXII E.U.

86. ICAROS NET Project.

Country : Europe
Time Period : 2002- 2004
Collaboration : Other European Institutions
Funding : DGXII E.U.

87. Study of the Indoor Air Quality of Closed and Open Athletic Stadium in Olympic cities.

Country : Greece
Time Period : 2002- 2003
Collaboration : Other Research Institutions
Funding : General Secretariat for Athletics.

88. Green Batteries.

Country : Greece
Time Period : 2003- 2007
Collaboration : Other Research Institutions
Funding : Life program, DGXI E.U.

89. Development of High Technology Laboratories for Indoor Environmental Measurements.

Country : Greece
Time Period : 2006- 2008
Collaboration : Other Research Institutions
Funding : General Secretariat for Research and Technology.

90. Environmentally Compatible Air Transport System, Network of Excellence.

Country : Europe
Time Period : 2005- 2012
Collaboration : Other Research European Institutions-Centers of Excellence
Funding : DGXII E.U.

91. Pythagoras Research Programs on Indoor air in various environments, clinics surgeries.

Country : Greece
Time Period : 2006-08
Collaboration : Collaboration with other U.A. departments
Funding : Ministry of Education and E.U.

92. COOL ROOFS Promotion of Cool Roofs in EU.
Environmentally Compatible Air Transport System, Network of Excellence.

Country : Europe
Time Period : 2008- 2011
Collaboration : Other Research European Institutions-Centers of Excellence
Funding : IEE, E.U.

93. Harmonizing air conditioning inspection and audit procedures in the tertiary building sector (HARMONAC).

Pythagoras Research Programs on Indoor air in various environments, clinics surgeries.

Country : Europe
Time Period : 2007-10
Collaboration : Collaboration with other U.A. departments
Funding : IEE, E.U.

94. Dragon International Cooperation Program.

Country : European countries and China
Time Period : 2009-2012
Collaboration : Collaboration with NASCC and ESA
Funding : E.U.

95. Air quality in schools and childcare settings.

Country : Greece
Time Period : 2010- 2012
Collaboration : Other Research Institutions
Funding : DG SANCO, EU.

96. Health-Based Ventilation Guidelines for Europe.

Country : Europe

Time Period : 2010- 2012
Collaboration : Other Research Institutions
Funding : DG SANCO, E.U.

97. Master and Post Graduate education and training in multi-disciplinary teams implementing EPBD and beyond.

Country : Europe
Time Period : 2011- 2013
Collaboration : Other Research Institutions
Funding : IDES EDU-IEE, EU.

98. Demonstrating through Intelligent Control (smart metering, wireless technology, cloud computing, and user-oriented display information), Energy and Water wastage reductions in European Social Housing

Country : Europe
Time Period : 2011- 2014
Collaboration : Other European Institutions
Funding : IEE.

Note: Small-scale programs are not listed.

2. PUBLICATIONS

A. INTERNATIONAL SCIENTIFIC JOURNALS

- 1.** Asimakopoulos D.N., Cole R.S., Caughey S.J., Moss S.H. and Readings C.J., 1975: "A comparison between acoustic radar returns and the direct measurement of the temperature structure of the atmosphere", Atmospheric Environment, 9, 775-776.
- 2.** Asimakopoulos D.N., Cole R.S., Caughey S.J. and Crease B.A., 1976: "A quantitative comparison between acoustic sounder returns and the direct measurement of atmospheric temperature fluctuations", Boundary Layer Meteorology, 10, 137-147.
- 3.** Caughey S.J., Crease B.A., Asimakopoulos D.N. and Cole R.S., 1976: "A comparison of acoustic Doppler vertical velocities with direct measurements in the atmospheric boundary layer", Nature, 262, 274-276.
- 4.** Caughey S.J., Crease B.A., Asimakopoulos D.N. and Cole R.S., 1976: "Measurement of the rate of dissipation of turbulent kinetic energy in convective conditions by acoustic sounding", abstract published by Journal of the Acoustical Society of America, 60, Sup 1, S31.
- 5.** Asimakopoulos D.N. and Cole R.S., 1977: "An Acoustic sounder for the remote probing of the lower atmosphere", Journal of the Inst. of Physics. E. Scientific Instruments, 10, 47-50.
- 6.** Caughey S.J., Crease B.A., Asimakopoulos D.N. and Cole R.S., 1978: "Quantitative bistatic acoustic sounding of the atmospheric boundary layer", - Quarterly Journal of the Royal Meteorological Society, 104, 147-161.
- 7.** Asimakopoulos D.N., Cole R.S., Caughey S.J. and Crease B.A., 1978: "A comparison of acoustic Doppler vertical velocity power spectra with direct measurements", Atmospheric Environment, 12, 1951-1956.

- 8.** Mousley T.J., Asimakopoulos D.N., Cole R.S. and Crease B.A., 1978: "Design of arrays for Acoustic Radar antennae", Journal of the Inst. of Physics-Scientific Instruments, 11, 657-662.
- 9.** Mousley T.J., Cole R.S., Asimakopoulos D.N. and Caughey S.J., 1979: "Simultaneous horizontal and vertical acoustic sounding of the atmospheric boundary layer", Boundary Layer Meteorology, 17, 223-230.
- 10.** Asimakopoulos D.N., Deligiorgi D.G. and Lalas D.P., 1980: "Acoustic sounder observations of the atmospheric boundary layer from the top of a steep mountain", Journal of Applied Meteorology, 19, 109-112.
- 11.** Cole R.S., Asimakopoulos D.N., Mousley T.J., Caughey S.J. and Crease B.A., 1980: "Some aspects of the construction and use of atmospheric acoustic Sounders", Journal of the Radio and Electronic Eng., 50, 585-597.
- 12.** Caughey S.J., Crease B.A., Cole R.S., Asimakopoulos D.N. and Mousley T.J., 1980: "Quantitative interpretation of acoustic echoes from the planetary boundary layer", Journal of the Radio and Electronic Eng., 50, 598-610.
- 13.** Asimakopoulos D.N., Lalas D.P., Helmis C. and Caroubalos C., 1980: "An atmospheric turbulence Probe", IEEE-Geoscience and Remote Sensing, GE-18, 347-353.
- 14.** Mousley T.J., Asimakopoulos D.N., Cole R.S., Caughey S.J. and Crease B.A., 1981: "Measurement of boundary layer structure parameter profiles by acoustic sounding and Comparison with direct measurements", Quarterly Journal of the Royal Meteorological Society, 107, 203-230.
- 15.** Mousley T.J., Asimakopoulos D.N., Cole R.S., Crease B.A., and Caughey S.J., 1981: "Acoustic Doppler with velocity measurements using a simple phaselock loop", Journal of the Institute of Physics - E, Scientific Instruments, 14, 621-628.
- 16.** Mousley T.J., Asimakopoulos D.N., Cole R.S., Caughey S.J., 1982: "Measurement of humidity using multifrequency atmospheric acoustic sounding", Atmospheric Environment, 16, 1501-1506.

17. Mouldsley T.J., Asimakopoulos D.N., Cole R.S., Caughey S.J. and Crease B.A., 1982: "Temperature structure parameter measurements using differential temperature sensors", Boundary Layer Meteorol., 23, 307-315.
18. Helmis C.G., Asimakopoulos D.N., Caroubalos C.A., Cole R.S., Medeiros Filho E.C. and Jayasuriya D.A.R., 1983: "A Quantitative comparison of the refractive index structure parameter determined from refractivity measurements and amplitude scintillation measurements at 36 GHz", IEEE - Geoscience and Remote Sensing, GE-21, 221-224.
19. Helmis C.G., Asimakopoulos D.N., Lalas D.P. and Mouldsley T.J., 1983: "On the local isotropy of the Temperature field in an urban area" Journal of Climate and Applied Meteorology, 22, 1594-1601.
20. Lalas D.P., Asimakopoulos D.N., Deligiorgi D.G. and Helmis C.G., 1983: "Sea breeze circulation and photochemical pollution in Athens, Greece", Atmospheric Environment, 17, 1621-1631.
21. Asimakopoulos D.N., Mouldsley T.J., Helmis C.G., Lalas D.P. and Gaynor J. 1983: "Quantitative low level Acoustic Sounding and comparison with direct measurements", Boundary Layer Meteorol., 27, 1-26.
22. Lalas D.P., Asimakopoulos D.N., Deligiorgi D.G. and Helmis C.G., 1984: "Sea breeze circulation and photochemical Pollution in Athens, Greece", Atmospheric Environment, Reply, 18, 1037.
23. Hunt J.C.R., Lalas D.P., Asimakopoulos D.N., 1984: "Airflow and dispersion in rough terrain: a report on Euromech 173", Journal of fluid Mechanics, 142, 201-216.
24. Helmis C.G., Asimakopoulos D.N. and Cole R.S., 1985: "A low-level atmospheric vertical velocity comparison between a high resolution acoustic sounder and a turbulence probe", IEEE-Geoscience and Remote Sensing, GE-23, 164-170.
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26. Asimakopoulos D.N., Helmis C.G., and Stephanou G.J., 1987: "Atmospheric acoustic mini-Sounder", Journal of Atmospheric and Oceanic Technology, 4, 345-347.
27. Helmis C.G., Asimakopoulos D.N., Deligiorgi D.G. and Lalas D.P., 1987: "Observations of the sea-breeze front structure near the shoreline", Boundary Layer Meteorol., 38, 395-410.
28. Lalas D.P., Tombrou-Tsella M., Petrakis M., Asimakopoulos D.N. and Helmis C.G., 1987: "An experimental study of the vertical distribution of ozone over Athens", Atmospheric Environment, 12, 2681-2693.
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30. Hogstrom U., Asimakopoulos D.N., Kambezidis H., Helmis C.G. and Smedman A., 1988: "A field study of the wake behind a 2 MW wind turbine", Atmospheric Environment, 22, 803-820.
31. Kouroupetroglou G.T., Caroubalos C.A., Asimakopoulos D.N. and Vakasis N.T., 1988: "Autonomous multichannel data - acquisition system", Review of Scientific Instruments, 59, 179-181.
32. Deligiorgi D.G., Helmis C.G., Asimakopoulos D.N. and Lalas D.P., 1989: "Quantitative acoustic sounding from the top of a steep mountain", International Journal of Remote Sensing, 9, 211-226.
33. Tselepidaki I.G., Asimakopoulos D.N. and Melitsiotis D.A., 1990: "A cold spell during March 1987 over Greece", Weather, 45, 42-47.
34. Helmis C.G., Asimakopoulos D.N., Deligiorgi D.G. and Petrakis M., 1990: "Some observations on the destruction of the morning temperature inversions in a large and broad mountain valley", Journal of Applied Meteorology, 29, 394-398.

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41. Asimakopoulos D.N., Deligiorgi D., Drakopoulos C., Helmis C., Kokkori K., Lalas D, Sikiotis D. and Varotsos C., 1992: "An experimental study of short distance air pollutant transport over complex terrain", Atmospheric Environment, Urban Atmosphere, 26B(1) 59-71.
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48. Balaras C., Tselepidaki I., Santamouris M. and Asimakopoulos D.N., 1993: "Calculations and statistical analysis of the environmental cooling power index for Athens, Greece", J. Energy Conversion and Management, 34, 2, 139-146.
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50. Balaras C., Tselepidaki I., Santamouris M. and Asimakopoulos D.N., 1993:"Analysis of thermal comfort conditions in Athens, Greece", J. Energy Conversion and Management, 34, 4, pp. 281-285.
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58. Mihalakakou G., Santamouris M. and Asimakopoulos D.N., 1994 : "Use of ground for heat dissipation", J. Energy, 19, 1, 17-25.
59. Mihalakakou G., Santamouris M., Asimakopoulos D.N. and Papanikolaou N., 1994: "Impact of ground cover on the efficiencies of earth to air heat exchangers", Journal of Applied Energy, 48, 19-32.
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E. TECHNICAL REPORTS

Έχουν δημοσιευθεί περισσότερες από **100 Τελικές Τεχνικές Εκθέσεις** που παραδόθηκαν σε φορείς όπως: Πανεπιστήμια που αναφέρονται στην ενότητα 6 του βιογραφικού σημειώματος, σε υπηρεσίες της Ευρωπαϊκής Ένωσης, στην Γενική Γραμματεία Έρευνας και Τεχνολογίας της Ελλάδας, στο Συμβούλιο Έρευνας της Μεγάλης Βρετανίας και των Ηνωμένων Πολιτειών της Αμερικής, σε Οργανισμούς Κοινής Ωφέλειας της Ελλάδας και σε πολλούς άλλους εγνωσμένου κύρους φορείς του εσωτερικού και του εξωτερικού.

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