

CURRICULUM VITAE

D. N. ASIMAKOPOULOS
Professor

First Part

Athens, 2016

1. GENERAL INFORMATION

Surname: Asimakopoulos

Name: Demosthenes

Organization of primary employment:

National & Kapodistrian University of Athens

Professor of Environmental Physics

Former Rector of the University

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2. HIGHER EDUCATION

Diploma, Department of Electronic and Electrical Eng., University College
London, 1973.

Ph.D., Department of Electronic and Electrical Eng., University College London, 1976.

D.Sc., Faculty of Mathematics and Physics, University of Athens, 1978

3. EMPLOYMENT

Academic Positions

1973-1976, Research Assistant, Dept. of Electronic and Electrical Eng., University
College London, UK.

1976-1977, Research Fellow, (lecturer scale.), Dept. of Electronic and Electrical Eng.,
University College London, UK.

1977-1978, Lecturer,(the old ranking system), Dept. of Physics, Faculty of Physics and Mathematics, University of Athens, GR.

1978-1982, Reader,(the old ranking system), Dept. of Physics, Faculty of Physics and Mathematics, University of Athens, GR.

1982-1984, Assist. Professor, Dept. of Physics, Faculty of Positive Sciences, University of Athens, GR.

1984-1987, Assoc. Professor, Dept. of Physics, Faculty of Positive Sciences, University of Athens, GR.

1987-today, Professor, Dept. of Physics, Faculty of Positive Sciences, University of Athens, GR.

Administrative Positions Held in the University

1985-1994 and 2000-today, Director of the Laboratory of Meteorology.

1987-2000 **Director** of the Applied Physics Department.

1999-2004, **Chairman** of Faculty of Physics.

2003-2009, **Vice Rector** of the University

2006-2010, **Chairman** of the Research Committee Account of the UoA

2008-2010, **Director** of the Center of Continues Education

2009-2010 **Rector** of the University

Administrative Positions Held Outside the Uo A.

1978-1985, **Adj. Professor**, Faculty of Engineering, Air Force Academy, GR.

1978-1987, **Adj. Professor**, Postgraduate School, Army Signal Corps, GR.

1980-1981, **Adj. Professor**, Postgraduate School, Meteorological Office, GR.

1980-1981 **Senior Scientist** – Researcher, National Oceanic and Atmospheric Administration, Wave Propagation Laboratory, Boulder Colorado, USA

1989-99, **Director** of the Institute of Meteorology and Physics of the Atmospheric Environment of the National Observatory of Athens, GR.

4. TEACHING EXPERIENCE

Teaching in Greece and abroad since 1973.

Dept. of Electronic and Electrical Eng., University College London, UK.

Dept. of Physics, University of Athens, GR.

International Center for Theoretical Physics of Trieste, Italy.

European Association for Environmental Management Education, Varese, Italy.

a) Polytechnic School of Torino, IT.

b) University of Trier, GE.

Faculty of Engineering, Air Force Academy, GR.

Postgraduate School, Meteorological Office, GR.

Postgraduate School, Army Signal Corps, GR.

Subjects Taught.

Applied Meteorology - Environmental Instrumentation

Applied Statistics

Physics of the Atmospheric Boundary Layer, (henceforth A.B.L.).

General Meteorology

Air Pollution - Protection of the Atmospheric Environment

Basic on Geophysical Flows

Radio meteorology and Radio Propagation in the Atmosphere

Renewable Energy Sources

Environmental Awareness and Education

Building Physics

Supervision of Ph.D., MSc and final year project in Greece and Abroad.

His students occupy various academic, research and administrative positions in Greece and abroad.

5. RESEARCH EXPERIENCE

The scientific research work starts in the early 1972 with the Diploma final year project at University College London with the design of an acoustic sounder. This work was actually

extended to Ph.D. the subject of which was, the design and the construction of acoustic radar suitable for quantitative meteorological measurements in the atmospheric boundary layer and its use for the study of microwave propagation. This research work was completed in the beginning of 1976.

Since then, the free research work started and continued till today. The research topics covered so far include:

- a) The design of modern in-situ and remote sensing meteorological instrumentation.
- b) Experimental studies in the atmospheric boundary layer.
- c) Air pollution studies.
- d) Wind energy studies.
- e) Solar radiation studies.
- f) Building physics and energy saving studies.

Details of the project work undertaken over the years, the funding and the scientific collaborations are given in the second part of the CV.

6. SCIENTIFIC COLLABORATIONS WITH OTHER INSTITUTIONS

(The most important and representative)

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, für Radiochemie, Germany.
7. Research Center, Greek Air Force.
8. Public Power Corporation, GR.
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. General Secretariat for Research and Technology.
15. Research Center, Greek Naval Office.
16. Polytechnic School of Torino.
17. Swedish Royal Academy.
18. National Technical University of Athens.
19. Watenfall, (Swedish Public Power Corporation).

20. University of the Aegean.
21. ETBA.
22. Dundee University - Depts. of Dermatology and Physics, U.K.
23. Telespazio S.P.A., Italy.
24. University de L' Aquila, Italy
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. Aristotelian University of Thessalonica.
35. Building Research Establishment, UK.
36. National Center of Physical Research - Democritus
37. B.B.R.I., Belgium.
38. Center for Renewable Energy Sources.
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. MEMBERSHIPS

1. British Royal Meteorological Society (RMS) - Fellow.
2. Technical Chamber of Greece - Member.
3. British Institute of Electronic and Radio Eng. – Graduate.
4. Hellenic Meteorological Society - Fellow.
5. Institute of Electrical Eng. (IEE- UK) - Fellow.
6. British Chartered Eng. (C.Eng) .
7. European Association for the Science of Air Pollution (EURASAP) - National Representative and Member.
8. European Wind Energy Association (EWEA) - Member.
9. Hellenic Wind Energy Association (HWEA) - Founding Member.
10. European Environmental Research Organisation (EERO) – Member

11. Institute of Solar Technique, GR – Member.
12. Foreign Member of the Georgian Academy of Science.
13. Foreign Member of the Russian Academy of Natural Sciences.

8. OTHER PROFESSIONAL ACTIVITIES

1. Member and Vice-Chairman of the Management Board of the Hellenic Meteorological Society Council, (1980 - 1990).
2. Vice-Chairman of the National Institute of Oceanography of Greece (1982 - 1984).
3. Research Associate of the Greek Air Force Research Center (1980 - 1981).
4. Director of the Institute of Meteorology and Physics of the Atmospheric environment of the National Observatory of Athens (1989 - 1999).
5. Member of the University of Athens Senate, (1986-88; 1990-92; 1999- 2010).
6. National Representative for Greece for Wind Energy Applications, 1983, for Remote Sensing, for the formation of the European Center of Earth Observation, (1991-95) and Environmental and Climate, 1994-99.
7. Founding Member of the European Association for Environmental Management Education. Member of the Steering Committee and the Academic Board, (1991-2006).
8. Founding Member and Scientific Responsible of the Greek Centre for Energy Education of the University of Athens and D.G. 17 CEC, (CIENE), 1993- today.
9. Elected Member of the NATO Special Programme Panel on the Science of Global Environmental Change, (1993-1998).
10. Member of the Governing Board of the Hellenic Space Committee, (1994- 2000).
11. Elected member and Vice Chairman of the Scientific Committee of the European Environment Agency (1994-2002).
12. Member of the patronage committee of the Hellenic Society for the protection of nature, (1996 – today).
13. Chairman of the Scientific Board of the National Center of Marine Research, (1996 – 1999).
14. Member of the Board of Governors of the Joint Research Center of the European Commission, (2002 – 2004).
15. Member of the Management Board of the Institute Solar Technique, (2001 – today).
16. Chairman and Managing Director, Eugenidion Hospital of the University of Athens, (2003 – 2007).
17. Vice Chairman of the Onassion Cardio Surgical Hospital, (2004 – 2007).
18. Chairman and General Secretary of the University of Athens Property Management Ltd., (2007 – 2010).
19. Vice Chairman of the Steering Committee for the preparation of the Operational Plan for the Building Energy Performance, Ministry of Development, (2008 – 2009).

20. Member of the Management Board of the Mariolopoulio – Kanaginio Institution of Environmental Sciences, (2008 – today).

9. AWARDS- PRIZES

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. **Russian Academy special distinction for the Overall Scientific Contribution, 2008.**
7. **Diploma No 30/5 of the Georgian Academy of Sciences for Exceptional Contribution to Modern Sciences and Technology, May 2008.**
8. **Prize of Excellence as Operational Coordinator, “Information Society Program”, Invitation 172, Action 1.3, awarded by the Hellenic Ministry of Economy and Finance, 2009.**
9. **Special Award for the contribution as Coordinator of the European «Dragon» International Program from the European Space Agency and the National Remote Sensing Center of China 2012.**
10. **Ecocity 2014 First Prize for personal life-long research.**
11. **Other Distinctions and Awards**
 - a) **Lord Notarius of the Alexandria Patriarch for his contribution to Higher Education, 2009.**
 - b) **The Great Cross of St. George of the Hellenic Church for his contribution to education, Public Administration and to the Church social work, 2010.**

10. LIST OF INVITED LECTURES AND SEMINARS ABROAD

(The most important and recent)

1. **University College London - University of London, UK.**
2. **British Meteorological Office, Bracknell, UK.**
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. **Greek Institutions.**
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, UK.
13. Trier University, Germany
14. Air Infiltration and Ventilation Centre, University of Warwick Science Park, Coventry, Great Britain.
15. Harvard School of Public Health.

Note: Introductory talks and presentations in Conferences and other Meetings are not mentioned.

11. REFEREE OF -SCIENTIFIC JOURNALS- FUNDING ORGANIZATIONS AND ORGANIZER OF INTERNATIONAL CONFERENCES

1. External Examiner of Greek and Foreign Universities, (e.g. NTUA, AUTH, Erasmus, UPS etc).
2. Referee of Greek and Foreign Organizations, (GCRT, SRC).
3. Referee of International Journals (e.g. Technica Chronica, Atmospheric Environment, Boundary Layer Meteorology, International Journal of Remote Sensing, Climate Research, etc)
4. International Conference and Workshops:
 - Co-organizer of the International Conference, Euromech 173, Delphi 1983.
 - Co-organizer of the International Conference on Wind Energy Applications, Delphi 1985.
 - Organizer of the International Symposium on Acoustic Remote Sensing and Associated Techniques, ISARS'92, Athens, 1992.
 - Organizer of the International Symposium on Solar Energy and Energy Saving in Buildings in the Urban Environment, Athens, 1994.
 - Organizer of the International Symposium on Training and Education in the Energy Field, Athens, 1995.
 - Organizer of the International Symposium on Passive Cooling of Buildings, Athens, 1995.
 - Organizer of the International Symposium on Optimisation of day lighting in the retrofitting process of Commercial Buildings, Athens, 1996.
 - Organizer of the 3ed Hellenic Conference on Meteorology, Climatology and Atmospheric Physics, Athens, 1996.

- Organizer of the 4th European Earth Observation Systems, (EEOS) Workshop, Santorini, 2-3/10/1997.
- Chairman of the 5th International Conference on Environmental Science and Technology, Lesbos, 1997.
- Chairman of the National Conference on Energy and the Environment in the Islandous Aegean Region, Andros, 2-3/11/2001.
- Co-Organizer of the International Conference of Fire Prevention and Mitigation, Athens, 2008.
- Co-Organizer PALENC 2010, Rhodes Island, Greece, 29/9-1/10/2010.
- Scientific Committee of the International Conference «Energy Policy and Climate Change», Athens, Greece 7 October 2010.
- Chairman of the Scientific Committee of the International Conference on Meteorology- Climatology and Atmospheric Physics, June 2012, Athens, Greece.
- Chairman of the Scientific Committee of the International Conference on Meteorology- Climatology and Atmospheric Physics, June 2014, Chania, Greece.
- Organizer of several Continuing Education Programs.

12. MAJOR ACHIEVEMENTS

1. Re-organization of the Laboratory of Meteorology of the University of Athens.

The Laboratory was re-organized and expanded to cover a wide range of scientific areas.

Today the Laboratory of Meteorology incorporates the following research units:

- Upper Air Laboratory
- Satellite remote sensing Laboratory
- Instrumentation development Laboratory
- Atmospheric Boundary Layer Laboratory
- Computer Laboratory for Meteorological Applications
- Energy Efficiency Education Center
- Environmental and Energy Application Open Laboratory
- Physical Oceanography Laboratory

The above-mentioned development was accompanied by an increase of the academic personnel and the incoming research funds.

2. Creation of the Energy Efficiency Education Center.

The Center was founded in 1992 with the support of D.G. XVII for Energy of the European Union.

The primary objective of the Center is the coordination of specialized training and continues education on Energy Efficiency.

3. Organization of the Athens Focal Point for Training the Master's degree students of the European Association for the Environmental Management Education.

The Focal Point commenced its operation in 1992 and train graduate students from European Union countries and from countries outside Europe.

4. Upgrading of the Institute of Meteorology and Atmospheric Physics, (NOA).

(Renamed to Institute for Environmental Research and Sustainable Development)

The new structure of operation of the Institute incorporates four new Laboratories with new technological infrastructure. This organization led to the change of the name of the Institute. The new laboratories are:

- Solar Radiation Laboratory
- Air Pollution Laboratory
- Atmospheric Chemistry Laboratory
- Meteorological Instrumentation Laboratory

The above-mentioned development was accompanied by an increase of the academic personnel and the incoming research funds.

5. Upgrading the University Hospital: Euginidion

The upgrading consists of:

- Modification of the operating legislation
- Opening of new university hospital clinics
- Personnel training
- Reduction of the operating cost
- Modification of the building infrastructure

The hospital announced profits, (after 12 years of losses), one year after the above mentioned actions

6. Founding Member of the European Environment Agency in Copenhagen

Served the Agency as vice chairman of the scientific committee.

7. Upgrading the University of Athens Economic and Special Research Funds Offices.

- Introduction of new operating system
- Accreditation in accordance with ISSO 9001:2000.
- Upgrading the logistic system

8. Official Validation of the Laboratory of Indoor and Outdoor Air Pollution Monitoring.

This is the only ISSO certified laboratory of this type in the Country with the authority to provide services to other private and public entities.

SUMMARY

PUBLICATIONS

1. Publications in International Scientific Journals	196
2. Publications in Greek Scientific Journals	14
3. Books – Theses	42
4. International & National Conferences/Workshops	275
5. Technical and Internal Reports, more than	100
6. Publications in books	22
7. Total Published work	649
8. Citations over	5500
9. Number of Projects Externally Founded, (most important)	100

PROFESSIONAL EXPERIENCE

1. Director of the Laboratory of Meteorology
2. Vice Chairman of the Oceanographic Institute of Greece
3. Director of the Applied Physics Section.
4. Teaching currently in European Universities, (Athens, Torino, Trier)
5. Vice Chairman of Hellenic Meteorological Society
6. Scientific Consultant, Adviser, (National, European, International)
7. Director of the Institute of Meteorology and Physics of the Atmospheric Environment, National Observatory of Athens
8. Director General of the Greek Centre for Energy Education
9. Member of the Governing Board of the Hellenic Space Committee
10. Vice Chairman of the Scientific Committee of the European Environment Agency
11. Chairman of the Scientific Committee of the National Center for Ocean Research, (NCMR)
12. Member of the Governing Board of the Institute for Solar Techniques.
13. Member of the Board of Governors of the Joint Research Center of the EU
14. President and anaging Director of Eudinidion Hospital
15. Vice Rector of the National and Kapodistrian University of Athens
16. Vice Chairman of the Onassion Cardiological Hospital
17. Rector of the National and Kapodistrian University of Athens

FIELDS of SCIENTIFIC DIRECTIONS


1. Physics of the Built Environment – Air Pollution
2. Environmental Management
3. Design of In-Situ and Remote Sensing Atmospheric Physics Instrumentation
4. Physics of the Lower Atmosphere
5. Renewable Energy Sources – Energy Save
6. Applied Climatology - Global Change

FIELDS of GENERAL PROFESSIONAL EXPERIENCE

1. Management of Research and Educational Programs
2. Management of Health Services

DECORATIONS

Ph.D., D.Sc., Fellow of the Institute of Electrical Eng., (FIEE, UK.), Chartered Eng. (UK.), Fellow of the Royal Meteorological Society, (FRMS, UK.), Member of the Technical Chamber of Greece, (GR.), Chartered Eng. (GR.), Fellow of the Hellenic Meteorological Society, (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, Member of the Euro Mediterranean Academy of Arts and Sciences –Head of the Greek Chapter.



Second Part

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 Attikoviota, GR.

Country : Attika, 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 aloumina 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 photo spectrometers at LKO Arose.

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 programme) 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. Day lighting 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 Day lighting 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 Organization

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 Strato-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. Programme 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 Katabatic 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 Programme.

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 Programme.

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

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

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 Programme

63. Rehabilitation of Multi use Buildings.

Country : Greece
Time Period : 1995 - 1997
Funding : EEC, SAVE Programme, DG XVII.

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

Country : Greece and Germany
Time Period : 1995 - 1997
Collaboration : TRANSOLAR, National Observatory of Athens
Funding : EEC, ALTENER Programme, 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 : ----
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 delighting in the retrofiting process of commercial buildings.

Country : Greece
Time period : 1995-1996
Funding : EEC, SAVE Programme, 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 : ----
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 Adored 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 3 International Cooperation Program.

Country : European countries and China
Time Period : 2009-2012, 2012-216
Collaboration : Collaboration with NASCC and ESA
Funding : E.U.

95. Ragon 2 International Cooperation Program.

Country : European countries and China
Time Period : 2008- 2012
Collaboration : Collaboration with NASCC and ESA/MOST
Funding : E.U.

96. Air quality in schools and childcare settings.

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

97. Health-Based Ventilation Guidelines for Europe.

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

98. 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.

99. 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.

100. Evaluation of the Indoor air quality of the Athens Metro

Country : Europe
Time Period : 2011- 2013
Collaboration : Other European Institutions
Funding : Mariolopoulio Environmental science foundation

Note: Small-scale programmes are not mentioned.

2. PUBLICATIONS

A. INTERNATIONAL SCIENTIFIC JOURNALS

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- 8.** Mouldsley 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.

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- 267.** Cartalis, C., Asimakopoulos D.N., Petrakis M., Adaktylou N., Stathopoulou M. And Chrysoulakis N., 2013: “Use of earth observation in assessing the impact of major sport events”, Proc. Of the 4th International Conference on Environmental Management, Engineering, Planning and Economics, (CEMEPE & SECOTOX), Mykonos, Greece.
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- 271.** Asimakopoulos D.N., 2014: “Built Environment Protection”, Keynote speaker, ERA 9 International Conference, TEI Piraeus, Gr.
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276. Cartalis C., et. Al., 2015: “ Earth observation in support of science and applications development in the field Land and Environment”, The International Archives of the Photogrammetry, Remote sensing and special Information Sciences, Volume XL-7/w3, 36th International Symposium on Remote Sensing of Environment, 11-15/5/2015, Berlin, Germany.

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E. TECHNICAL REPORTS

More than 100 analytic Technical Reports to Research Project, Studies and other assignments were prepared by our scientific group. These were delivered to collaborating Organizations, Universities, the European Union Commission, Local Authorities, Ministries and other public and Private Entities. More details of these Organizations can be found in Section A 6 and B 1 of the present document.

F. PUBLICATIONS IN BOOKS

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5. Asimakopoulos D.N., Petrakis M., Helmis C.G., Tombrou M., Varotsos C. and Soilemes A.T., 1992: «A combined meteorological and air pollution experiment over Thessaloniki", KFA Seminar on Monitoring and Modelling in the Mesoscale, p. 65-77.
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