

PERSONAL INFORMATION

Margarita Niki Assimakopoulos

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 masim@phys.uoa.gr

Sex Female | Date of birth 15/09/1977 | Nationality Greek

PREFERRED JOB

Assistant Professor Physics Department, National and Kapodistrian University of Athens , Electrical and Electronic Engineer

WORK EXPERIENCE

08/2012–Present

Assistant Professor

Department of Physics - Section of Environmental Physics and Meteorology - National and Kapodistrian University of Athens

Teaching of 5 courses (undergraduate and post graduate)

Participating in International and National Research Projects

04/2008–08/2012

Lecturer

Department of Physics - Section of Environmental Physics and Meteorology - National and Kapodistrian University of Athens

Teaching of 5 courses (undergraduate and post graduate)

Participating in International and National Research Projects

Business or sector Education

06/1999–04/2008

Researcher for the Group of Building Environmental Studies

National and Kapodistrian University of Athens
Group Building Environmental Studies,

Participating in National and International Research projects

Business or sector Research

10/2005–06/2006

Teaching associate

National and Kapodistrian University of Athens
Department of Geology and Environmental Geology,

Teaching of Applied Climatology to post graduate students

Business or sector Education

11/2004–06/2005

Teaching associate

EUREC AGENCY

Teaching of the course for the European Master in Renewable Energy organized by the European University Organization (EUREC Agency) in Renewable Energy

Business or sector Education

06/1998–09/1998

Assistant Researcher

National and Kapodistrian University of Athens
 Group Building Environmental Studies,
 Summer Occupation Collection and processing data for indoor quality

Business or sector Research

06/1997–09/1997 **Assistant Researcher**

National Observatory of Athens.

Summer occupation in the Institute of Meteorology and Environmental Physics (today known as Institute for Environmental Research and Sustainable Development)

Collection and processing data for indoor quality

Business or sector Research

EDUCATION AND TRAINING

06/1995 **High school graduate**

Tositseio Arsakeio Ekalis

09/1993–06/1995 **A-Level General Certificate of Education**

Moraitis School

Physics, Mathematics and Higher Level Mathematics

09/1995–06/1999 **Master of Engineering**

Imperial College of Science Technology and Medicine, London (United Kingdom)

Electrical and Electronic Engineering

10/2000–09/2001 **Diplôme d'Études Approfondies (D.E.A.)**

École nationale des travaux publics de l'État, Lyon (France)

Bâtiment et Environnement - Buildings and Environment

10/2001–12/2004 **Doctorat**

École nationale des travaux publics de l'État, Lyon (France)

Développement et Evaluation des Systèmes et Stratégies de Contrôle de Régulation d'un Vitrage Electrochromique - Development and Evaluation of Control Systems and Strategies for an Electrochromic Glazing Unit in Building Applications

PERSONAL SKILLS

Mother tongue(s) Greek

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	B2	B2	B2	B2	B2
Spanish	A2	A2	A2	A2	A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
 Common European Framework of Reference for Languages

Organisational / managerial skills Organising and performing experiments on indoor and outdoor air quality, thermal and acoustic comfort, quality of construction, energy consumption and income in residential buildings (2006 – 2008)
Contribution to the measuring station for the corrosion of materials from photochemical compounds (UN ICP Materials).

Digital competence MATLAB
ASSEMBLY
C, C++VISUAL BASIC
VERY GOOD COMMAND OF MICROSOFT OFFICE TOOLS (WORD, EXCEL AND POWERPOINT)
Simulation Tools - TRNSYS, EnergyPlus

Driving licence B

ADDITIONAL INFORMATION

Publications

Conferences

Reviewer for International Journal

1. Journal of the International Solar Energy
2. International Journal of Remote Sensing
3. Journal of Cleaner Production
4. International Journal of Ventilation
5. Advances in Building Energy Research

Projects

- 1 BUILTECH (Building Technologies) (1999 – 2001)
- 2 SOS (Self Openings and Shadings) (1999 – 2001)
- 3 SWIFT (Switchable Façade Technology) (2001- 2002)
- 4 Spread CD-Res (Spreading R.E.S. results of major EC targeted Housing demonstration projects to all Housing Association in 10 EU countries) (2002 – 2004)
- 5 ESBU (Energy Efficient Sportive Buildings – leading the way) (2003 – 2004)
- 6 UN ECE ICP (Convention on Long-Range Transboundary Air Pollution) Materials (Trend Exposure) International co-operative Programme on Effects on Materials, including Historic and Cultural Monuments, (PI), (2005-2008)
- 7 MULTI-ASSESS (Model for multi-pollutant impact and assessment of threshold levels for cultural heritage). Fifth Framework Programme Key Action City of Tomorrow and Cultural Heritage within the Energy, Environment and Sustainable Development (2001-2004)
- 8 PITHAGORAS: Development of educational material for the Indoor Environmental Quality) (2004 -2006)
- 9 HARMONAC (Harmonizing Air Conditioning Inspection and Audit Procedures in the Tertiary Building Sector), Intelligent Energy – Europe (IEE) SAVE Project – Scientific Responsible for NKUA (2007-2010)
- 10 Schools Indoor Pollution and Health: Observatory Network in Europe 'SINPHONIE', European Commission service contract (DG Sanco, Health and Consumer Protection Directorate). (2010-2012)
- 11 Health-Based Ventilation Guidelines for Europe, 'HealthVent', EU funded, Executive Agency for Health and Consumers (EAHC) (2010-2012)
- 12 CRHIMA-CINP. CULTURAL RUPESTRIAN HERITAGE IN THE CIRCUM-MEDITERRANEAN AREA: COMMON IDENTITY – NEW PERSPECTIVE, 'CHRIMA', CULTURE 2007-2013 – Scientific

Responsible for NKUA (2010-2012)

13 Inspection of HVAC Systems through continuous monitoring and benchmarking, 'ISERV', Intelligent Energy – Europe (IEE) SAVE Project - Scientific Responsible for NKUA (2010-2014)

14 'The Square Mile Retrofit Project', ERA-Net Eracobuild Programme, Sustainable Renovation for the construction and operation of buildings – SusRen 2011 Joint Call for proposals - Scientific Responsible for NKUA (2011-2014)

15 'Whole House In-Situ Carbon & Energy Reduction Solution - WHISCERS', ERA-Net Eracobuild Programme, Sustainable Renovation for the construction and operation of buildings – SusRen 2011 Joint Call for proposals - Scientific Responsible for NKUA (2011-2014)

16 'Quality management for building performance -improving energy performance by life cycle quality management - QUANTUM', H2020-EeB-2015 - Scientific Responsible for NKUA (2016-2020)

Publications

- 1 Assimakopoulos M. N.**, Tsangrassoulis A., Mihalakakou G., Santamouris M. Jauré S. Development of a control algorithm to optimize airflow rates through variable size windows (2002) *Energy and Buildings*, Volume 34, Issue 4, pp. 363-368
- 2 Assimakopoulos M.N.**, Tsangrassoulis A., Guarracino G., Santamouris M. 'Integrated energetic approach for a controllable electrochromic device' (2004) *Energy and Buildings*, Volume 36, Issue 5, pp. 415-422
- 3 Primikiri E.**, Malkawi A., **Assimakopoulos M.N.** 'Bioclimatic Design Simulation: An object oriented approach for energy load and natural ventilation calculations' (2005) *International Journal of Ventilation*, Volume 4, Issue 3, pp. 239-244
- 4 Varotsos C.A.**, Ondov J.M., Cracknell A.P., Efstathiou M.N., **Assimakopoulos M.N.** 'Long-range persistence in global Aerosol Index dynamics' (2006), *International Journal of Remote Sensing*, Volume 27, Issue 16, pp. 3593 – 3603
- 5 Varotsos C.**, **Assimakopoulos M.N.**, Efstathiou M. 'Technical Note: Long-term memory effect in the atmospheric CO₂ concentration at Mauna Loa' (2006) *Atmospheric Chemistry and Physics Discussions*, Volume 6, pp. 11957-11970
- 6 Zannis G.**, Santamouris M., Geros V., Karatasou S., Pavlou K., **Assimakopoulos M. N.**: 'Energy efficiency in retrofitted and new museum buildings in Europe', *International Journal of Sustainable Energy* (2006) Volume 25, Issue 3 & 4, pp. 193 – 213
- 7 Tombazis A.N.**, Vratsanos N., Kontomichali E., Santamouris M., Zannis G., **Assimakopoulos M.N.**, Geros V., Pavlou K.: 'Design and Energy Performance of the Archaeological Museum of Delphi' (2006) *International Journal of Sustainable Energy*, Volume 25, Issue 3&4, pp. 171 – 183
- 8 Santamouris M.**, Mihalakakou G., Patargias P., Gaitani N., Sfakianaki K., Papaglastra, M., Pavlou C., Doukas P., Primikiri E., Geros V., **Assimakopoulos M.N.**, Mitoula R., Zerefos S. 'Using intelligent clustering techniques to classify the energy performance of school buildings' (2007) *Energy and Buildings*, Volume 39, Issue 1, pp. 45-51
- 9 Santamouris M.**, Argioudis K., Georgiou, M., Livada I., Doukas P., **Assimakopoulos M.N.**, Sfakianaki A., Pavlou K., Geros V., Papaglastra, M. 'Indoor air quality in fifty residences in Athens' (2007) *International Journal of Ventilation*, Volume 5, Issue 4, pp. 367-380
- 10 Bagiorgas, H.S.**, **Assimakopoulos, M.N.**, Theocharopoulos, D., Matthopoulos, D., Mihalakakou, G.K. Electricity generation using wind energy conversion systems in the area of Western Greece (2007) *Energy Conversion and Management*, Volume 48, Issue 5, pp.1640-1655
- 11 Livada I.**, Santamouris M., **Assimakopoulos M.N.** 'On the variability of summer air temperature during the last 28 years in Athens' (2007) *Journal of Geophysical Research*, Volume 112, Issue D12103, doi:10.1029/2006JD008140
- 12 Assimakopoulos M.N.**, Bagiorgas H.S., Mihalakakou G., Kalavrouziotis I.K., Apostolopoulos C.A., Matthopoulos D.P. 'The design and application of selected techniques for the environmental and energy improvement of urban areas – The case study of Patras, Greece' (2007) *Fresenius Environmental Bulletin* Volume 16 Issue 6, pp. 639-674
- 13 Santamouris M.**, Kapsis K., Korres D., Livada I., Pavlou C., **Assimakopoulos M.N.** 'On the relation between the energy and social characteristics of the residential sector' (2007) *Energy and Buildings*, Volume 39, Issue 8, pp. 893-905
- 14 Assimakopoulos M.N.**, Tsangrassoulis A., Santamouris M, Guarracino G., 'Comparing the energy performance of an electrochromic window under various control strategies' (2007) *Building and Environment*, Volume 42, Issue 8, pp. 2829 – 2834

- 15** Streicher W., Heimrath R., Hengsberger H., Mach T., Waldner R., Flamant G., Loncour X., Guarracino G., Erhorn H., Erhorn-Kluttig H., Santamouris M., Farou I., Zerefos S., **Assimakopoulos M.N.**, Duarte R., Blomsterberg Å., Sjöberg L. and Blomquist C. 'On the Typology, Energy Performance, Environmental Quality and Operational Characteristics of Double Skin Facades Buildings in Europe' (2007) *Journal of Advances on Building Energy Research*, Volume 1, Issue 1, pp. 1-28
- 16** **Assimakopoulos M.N.**, Mihalakakou G., Flocas H.A. 'Simulating the thermal behaviour of a building during summer period in the urban environment' (2007) *Renewable Energy*, Volume 32, Issue 11, pp. 1805-1816
- 17** Bagiorgas H.S., **Assimakopoulos M.N.**, Patentalaki A., Konofaos N., Matthopoulos D., Mihalakakou G. The design, installation and operation of a fully computerized, automatic weather station for high quality meteorological measurements (2007) *Fresenius Environmental Bulletin*, Volume 16, Issue 8, pp. 948-962
- 18** Spala A., Bagiorgas H.S., Assimakopoulos M.N., Kalavrouziotis J., Matthopoulos D., Mihalakakou G. On the green roof system. Selection, state of the art and energy potential investigation of a system installed in an office building in Athens, Greece (2008) *Renewable Energy*, Volume 33, Issue 1, pp. 173-177
- 19** Sfakianaki A., Pavlou C., **Assimakopoulos M.N.** 'Air – tightness measurements of residential houses in Athens, Greece' (2008) *Buildings and Environment*, Volume 43, Issue 4, pp. 398-405
- 20** Santamouris M., Synnefa A., **Assimakopoulos M.**, Livada I., Pavlou K., Papaglastra M., Gaitani N., Kolokotsa D. and Assimakopoulos V. 'Experimental investigation of the air flow and indoor carbon dioxide concentration in classrooms with intermittent natural ventilation' (2008) *Energy and Buildings*, Volume 40, Issue 10, pp. 1833-1843
- 21** Varostos C., Tzanis C., Tsitomeneas S., **Assimakopoulos M.N.**, Mammis A. Surface solar ultraviolet irradiance and total ozone during summertime (2008) *International Journal of Remote Sensing*, Volume 29, Issue 9, pp. 2667-2673
- 22** Livada I., Charalambous, G., **Assimakopoulos M.N.** Spatial and temporal study of precipitation characteristics over Greece (2008) *Theoretical and Applied Climatology*, Volume 93, Issue 1, pp. 45-55
- 24** Tzanis C., Varotsos C., Fern M., Christodoulakis J., **Assimakopoulos M.N.**, Efthymiou C. 'Nitric acid and particulate matter measurements at Athens, Greece, in connection with corrosion studies' (2009) *Atmospheric Chemistry & Physics*, Volume 9, pp. 8309-8316
- 25** Sfakianaki A., Pagalou E., Pavlou K., Santamouris M., **Assimakopoulos M.N.** 'Theoretical and experimental analysis of the thermal behaviour of a green roof systems installed in two residential buildings in Athens, Greece' (2009) *International Journal of Energy Research*, Volume 33, Issue 12, pp. 1059-1069
- 26** Bagiorgas H.S., Chaidetou E., **Assimakopoulos M.N.**, Mihalakakou G., Psiloglou B.E., Michalaina E. 'The use of wind energy for passive cooling applications in Western Greece' (2009) *Intelligent Buildings International*, Volume 1, Issue 3, pp. 209-221
- 27** Halios C.H., **Assimakopoulos M.N.**, Sfihtelli D., Chrisafis S. and Santamouris M. 'Studying the effect of indoor sources and ventilation on the particulates concentrations in dining halls' (2010) *International Journal of Ventilation*, Volume 8, Issue 4, pp. 359-369
- 28** Giannopoulou K., Livada I., Santamouris M., Saliari M., **Assimakopoulos M.**, Caouris Y.G. 'On the characteristics of the summer urban heat island in Athens, Greece' (2011) *Sustainable Cities and Society*, Volume 1, Issue 1, pp. 16-28
- 29** Fintikakis N., Gaitani N., Santamouris M., **Assimakopoulos M.**, Assimakopoulos D.N., Fintikaki M., Albanis G., Papadimitriou K., Chrysochoides E., Katopodi K. and Doumas P. 'Bioclimatic design of open public spaces in the historic centre of Tirana, Albania' (2011) *Sustainable Cities and Society*, Volume 1, Issue 1, pp. 54-62
- 30** Vardoulakis E., Karamanis D., **Assimakopoulos M.N.**, Mihalakakou G. 'Solar cooling with aluminum pillared clays' (2011) *Solar Energy Materials and Solar Cells*, Volume 9, Issue 8, pp. 2363-2370
- 31** Vardoulakis E., Karamanis D., **Assimakopoulos M.N.**, Boemi, S.N., Mihalakakou G. Moisture sorption properties of modified porous clays for roof evaporative cooling applications (2011) *International Journal of Ventilation*, Volume 10, Issue 2, pp. 185-194
- 32** **Assimakopoulos M.N.**, Dounis A, Spanou A., Santamouris M., Indoor Air Quality in a Metropolitan Area Metro Using Fuzzy Logic Assessment System (2012) *Science of The Total Environment*, Volume 449, Issue 1, pp. 461–469
- 33** Dorizas P.V., Kapsanaki-Gotsi E., Assimakopoulos, M.N., Santamouris, M. Correlation of

particulate matter with airborne fungi in schools in Greece (2013) *International Journal of Ventilation*, Volume 12, Issue 1, pp. 1-15

34 Giannopoulou K., Livada I., Santamouris M., Saliari M. and **Assimakopoulos M.**, Caouris Y. The influence of Air – Temperature and Humidity on Human Thermal Comfort over the Greater Athens Area (2014) *Sustainable Cities and Society*, Volume 10, pp. 184–194

35 Dorizas P.V., **Assimakopoulos M.N.**, Helmis C., Santamouris M. An integrated evaluation study of the ventilation rate, the exposure and the indoor air quality in naturally ventilated classrooms in the Mediterranean region during spring (2015) *Science of the Total Environment*, Volume 502, pp. 557-570

36 Kofinas P., Dounis A.I., Papadakis, G., **Assimakopoulos, M.N.**, An Intelligent MPPT controller based on direct neural control for partially shaded PV system (2015) *Energy and Buildings*, Volume 90, pp. 51-64

37 Dorizas P.V., **Assimakopoulos M.N.**, Santamouris M. A holistic approach for the assessment of the indoor environmental quality, student productivity, and energy consumption in primary schools (2015) *Environmental Monitoring and Assessment*, Volume 187, Issue 5, pp. 1-18

38 Bamparesos N., Assimakopoulos V.D., **Assimakopoulos M.N.**, Tsairidi E. Particulate matter levels and comfort conditions in the trains and platforms of the Athens underground metro (2015) *AIMS Environmental Science*, Volume 3(2) pp 199-219

39 Katavoutas G., **Assimakopoulos M. N.**, Assimakopoulos D.N. On the determination of the thermal comfort conditions of a metropolitan city underground railway (2016) *Science of the Total Environment*, Volume 566-567, 1 October 2016, pp 877-887

40 Foustalieraki M., **Assimakopoulos M.N.**, Santamouris M., Pangalou H. Energy performance of a medium scale green roof system installed on a commercial building using numerical and experimental data recorded during the cold period of the year (2016) *Energy and Buildings* (accepted)

Conferences

1 Sutherland G., Eftaxias G., Santamouris M., **Assimakopoulos M.N.** (1998) 'Development of intelligent algorithms for visual comfort control through selective solar control strategies', Proceedings EUFIT'98, 6th European Congress on Intelligent Techniques and Soft Computing, Aachen, Germany, pp.863-867

2 **Assimakopoulos M.N.**, Tsangrassoulis A., Guarracino G., Santamouris M. (2002) 'Integrated energetic approach for a controllable electrochromic device', Proceedings EPIC 2002 AIVC, Energy Efficient & Healthy Buildings in Sustainable Cities, Lyon, FRANCE, pp. 363-368

3 **Assimakopoulos M.N.**, Tsangrassoulis A., Guarracino G., Santamouris M. (2005) 'Optimum geometry and orientation of a building opening with an electrochromic glazing', Proceedings 1st International Conference Passive and Low Energy Cooling for the Built Environment, PALENC 2005, Santorini, Greece, pp.885-890

4 **Assimakopoulos M.N.**, Varotsos C., Efstathiou M. (2006) 'New computational algorithms for environmental data; Application to the equatorial Zonal wind', Institute of Communications and Computer Systems, ICCS 2006, 28-31 May, Reading, UK (invited talk)

5 Livada I., Santamouris M., **Assimakopoulos M.N.** (2006) 'Changes of summer air temperature during the last 28 years in Athens', Energy Performance and Environmental Quality of Buildings, EPEQUB 2006, 6-7 July, Milos, Greece

6 **Assimakopoulos M.N.**, Korres D., Santamouris M., Livada I. (2006) 'On the relation between income, electricity and oil consumption for different types of houses in Athens', Energy Performance and Environmental Quality of Buildings, EPEQUB 2006, 6-7 July, Milos, Greece

7 **Assimakopoulos M.N.**, Sfakianaki A., Doukas P., Santamouris M., Fourtounas A (2007) 'On the indoor air quality problem in residential areas: the Athens case' Clima 2007, 10 – 14 June, Helsinki,

Finland

- 8 Assimakopoulos M.N.**, Halios C.H., Santamouris M., Sfihtelli D., Chrisafis S. (2009) 'Ventilation and particulate levels in dining halls' AIVC 2009, 1-2 October, Berlin, Germany
- 9** Christodoulakis J., Tzani C., **Assimakopoulos M.N.** and Varotsos C. (2010) 'A study of the corrosion and soiling effects on materials by air pollution' 10th International Conference on Meteorology, Climatology and Atmospheric Physics 2010, 25-28 May, Patras, Greece
- 10** Vardoulakis E., Karamanis D., **Assimakopoulos M.N.**, Mihalakakou G. (2010) 'Moisture sorption properties of modified porous clays for roof evaporative cooling applications' PALENC 2010, 29 September – 1 October, Rhodes, Greece
- 11 Ασημακοπούλου M.N.**, Σπανού Α., Σφακιανάκη Α., Γαϊτάνη Ν., Σανταμούρης Μ., Σπυρόπουλος Κ., Χαραλαμπίδης Ν. (2011) 'Ενεργειακή και Περιβαλλοντική Αξιολόγηση των Αποτελεσμάτων της Χρήσης Αντηλιακών Μεμβρανών της Εταιρείας 3M' APENEΠ 2011, 3-4 Μαΐου, Αθήνα, Ελλάδα.
- 12** Assimakopoulou M., Tsolaki A., Petraki E. (2011) 'Microclimatic advantages of underground constructions' International seminar in Terra Ionica: Rupestrian Settlement in the Mediterranean Region, 28 April – 7 May, Massafra, Italy
- 13** Dorizas P.V., **Assimakopoulos M.N.**, Helmis C., Santamouris M. (2013) 'Analysis of Indoor Air Quality in Greek Primary Schools', Joint Conference 34th AIVC- 3rd TightVent- 2nd Cool Roofs – 1st Venticool, 25-26 September, Athens, Greece
- 14** Dorizas P.V., **Assimakopoulos M.N.**, Helmis C., Santamouris M. (2013) 'A Study on the Thermal Environment in Greek Primary Schools based on questionnaires and concurrent measurements' Joint Conference 34th AIVC- 3rd TightVent- 2nd Cool Roofs – 1st Venticool, 25-26 September, Athens, Greece
- 15** Dorizas P.V., **Assimakopoulos M.N.**, Helmis C., Santamouris M., Sifnaios J., Stathi K. (2013) 'Does Indoor Environmental Quality affect students' performance?' Joint Conference 34th AIVC- 3rd TightVent- 2nd Cool Roofs – 1st Venticool, 25-26 September, Athens, Greece
- 16** Dorizas P.V., Kapsanaki-Gotsi E., **Assimakopoulos M.N.**, Helmis C., Santamouris M. (2013) 'Indoor and Outdoor Distribution of Airborne Pollutants in Naturally Ventilated Classrooms' Joint Conference 34th AIVC- 3rd TightVent- 2nd Cool Roofs – 1st Venticool, 25-26 September, Athens, Greece
- 17** Dorizas P.V., **Assimakopoulos M.N.**, Santamouris M. (2013) 'On the Study of the Indoor Environment in Private Residences' 11th REHVA World Congress & 8th International Conference on IAQVEC CLIMA 2013, 16–19 June, Prague, Czech Republic
- 18** Tsairidi E., Assimakopoulos V.D., **Assimakopoulos M.N.**, Barbaresos N. Karagiannis A. (2013), 'Monitoring of air quality in passenger cabins of the ATHENS METRO', European Geosciences Union, General Assembly 2013, 7-12 April, Vienna, Austria (poster and press conference).
- 19 Assimakopoulos M.N.**, Efstratiou D., Assimakopoulos V.D. (2014) 'Effect of climatic conditions on the energy performance of typical dwellings across Europe', COMECAP 2014, 28 – 31 May, Heraklion, Greece, e-book of proceedings ISBN: 978-960-524-430-9 Volume 1 pp. 72-77
- 20** Sifnaios J., Dorizas P.V., **Assimakopoulos M.N.** (2014) 'A Study of Carbon Dioxide Concentrations in Elementary Schools' Joint Conference 35th AIVC - 4th TightVent – 2nd Venticool, 24-25 September, Poznan, Poland.
- 21 Assimakopoulos M.N.**, Katavoutas G. 'Thermal comfort conditions at the platforms of the Athens Metro' SBE16 International High-Performance Built Environments Conference 2016, 17-18 November, Sydney, Australia