

CONFERENCE SCHEDULE

	Wed, 29 June	Thur, 30 June	Fri, 1 July	Sat, 2 July	Sun, 3 July	
0830 – 0900		Registration (8:30 - 9:00) <i>Ritchie Theatre</i>		Concurrent Session 7 (8:30 -10:00) <i>John Niland Scientia Building</i>		
0900 – 0930		Welcome and Keynote Address (9:00 - 10:00) <i>Ritchie Theatre</i>	Concurrent Session 3 (9:00 - 10:30) <i>John Niland Scientia Building</i>			
0930 – 1000				Coffee break (10:00 - 10:30)		
1000 – 1030		Keynote Plenary session (10:00 - 11:00) <i>Ritchie Theatre</i>	Coffee break (10:30 - 10:45)	Concurrent Session 8 (10:30 -12:00) <i>John Niland Scientia Building</i>		Post Conference Tour (10:00 - 12:00) <i>Vessel Tribal Warrior</i>
1030 – 1100		Coffee break (11:00 - 11:20)	Concurrent Session 4 (10:45 - 12:15) <i>John Niland Scientia Building</i>			
1100 – 1130						
1130 – 1200			Global Airport Performance Benchmarking and Excellence Awards Session (11:20 - 12:30) <i>Ritchie Theatre</i>			
1200 – 1230	ATRS Networking/ Executive Committee Meeting (12:00 -14:30) <i>School of Aviation</i>	Lunch (12:30 - 13:30)	Lunch (12:15 - 13:00)	Closing Session (12:00 - 13:00) <i>Ritchie Theatre</i>		
1230 – 1300			Luncheon Address (13:00 - 13:45) <i>Ritchie Theatre</i>			
1300 – 1330			Concurrent Session 1 (13:30 - 15:00) <i>John Niland Scientia Building</i>			
1330 – 1400				Concurrent Session 5 (14:00 - 15:30) <i>John Niland Scientia Building</i>		
1400 – 1430	ATRS Airport Benchmarking Task Force Meeting (14:30 - 17:00) <i>School of Aviation</i>	Coffee break (15:00 - 15:30)	Coffee break (15:30 - 15:45)			
1430 – 1500		Concurrent Session 2 (15:30 - 17:00) <i>John Niland Scientia Building</i>	Concurrent Session 6 (15:45 - 17:15) <i>John Niland Scientia Building</i>			
1500 – 1530						
1530 – 1600						
1600 – 1630						
1630 – 1700						
1700 – 1730						
1730 – 1800	Welcome Reception (Starts at 17:30) <i>Strawberry Hills Hotel</i>					
1800 – 1830						
1900 – 1930			Gala dinner (Starts at 19:00) <i>South Steyne, Darling Harbour</i>			
1930 – 2000						

WEDNESDAY, 29 JUNE 2011

12:00 – 14:30 ATRS NETWORKING/ EXECUTIVE COMMITTEE MEETING

Location: School of Aviation, UNSW

Buffet lunch during the meeting

14:30 – 17:00 ATRS AIRPORT BENCHMARKING TASK FORCE MEETING

Location: School of Aviation, UNSW

Early registration available at School of Aviation

17:30 WELCOME RECEPTION

Location: Strawberry Hills Hotel – Cnr Devonshire and Elizabeth Sts

THURSDAY, 30 JUNE 2011

8:30 – 9:00 REGISTRATIONS

Location: Ritchie Theatre, The John Niland Scientia Building, UNSW

9:00 – 10:00 WELCOME & KEYNOTE ADDRESSES

Location: Ritchie Theatre, UNSW

Chair: Dr. Ian Douglas, UNSW

WELCOME ADDRESSES

Prof. Merlin Crossley, Dean, Faculty of Science UNSW

Prof. Tae Hoon Oum, President, Air Transport Research Society

KEYNOTE ADDRESS

Captain David Evans
Qantas

10:00 – 11:00 KEYNOTE PLENARY SESSION

Location: Ritchie Theatre, The John Niland Scientia Building, UNSW

Chair: Prof Jason Middleton, UNSW

A round trip journey – Bringing practice to research: Taking research to practice

Peter Harbison
CAPA

Prof Ann Williamson
TARS

Capt Ray Heiniger
Boeing Training & Flight Services

11:00 – 11:20 COFFEE BREAK

THURSDAY, 30 JUNE 2011

11:20 – 12:30 GLOBAL AIRPORT PERFORMANCE BENCHMARKING AND EXCELLENCE AWARDS SESSION

Location: Ritchie Theatre, UNSW

Chair: Mr. Perry J. Miller, Chief Executive Officer, Houston William P. Hobby Airport

Highlights of the 2011 Global Airport Performance Benchmarking Project Report

Presenter: Professor Tae H. Oum, Coordinator, The ATRS Global Airport Benchmarking Task Force and President, the ATRS

Acceptance Speeches by Excellence Award Winning Airport

12:30 – 13:30 LUNCH

13:30 – 15:00 CONCURRENT SESSION 1

Location: Ritchie Theatre, Gallery 1, Civil Eng G1, HK Alumni, Ronald Lu, Peter Farrell, Gonski, The John Niland Scientia Building, UNSW

15:00-15:30 COFFEE BREAK

15:30 – 17:00 CONCURRENT SESSION 2

Location: Ritchie Theatre, Gallery 1, Civil Eng G1, HK Alumni, Ronald Lu, Peter Farrell, Gonski, The John Niland Scientia Building, UNSW

FRIDAY, 1 JULY 2011

9:00 – 10:30 CONCURRENT SESSION 3

*Location: Gallery 1, Gallery 2, Civil Eng G1, HK Alumni, Ronald Lu, Peter Farrell, Gonski,
The John Niland Scientia Building, UNSW*

10:30 – 10:45 COFFEE BREAK

10:40 – 12:15 CONCURRENT SESSION 4

*Location: Gallery 1, Gallery 2, Civil Eng G1, HK Alumni, Ronald Lu, Peter Farrell, Gonski,
The John Niland Scientia Building, UNSW*

12:15 – 13:00 LUNCH

13:00 – 13:45 LUNCHEON ADDRESS

Location: Ritchie Theatre, The John Niland Scientia Building, UNSW

**Mr. Azran Osman-Rani, Chief Executive Officer
AirAsia X**

14:00 – 15:30 CONCURRENT SESSION 5

*Location: Gallery 1, Gallery 2, Civil Eng G1, HK Alumni, Ronald Lu, Peter Farrell, Gonski,
The John Niland Scientia Building, UNSW*

15:30 – 15:45 COFFEE BREAK

15:45 – 17:15 CONCURRENT SESSION 6

*Location: Gallery 1, Gallery 2, Civil Eng G1, HK Alumni, Ronald Lu, Peter Farrell, Gonski,
The John Niland Scientia Building, UNSW*

FRIDAY, 1 JULY 2011

19:00

GALA DINNER

Location: South Steyne, Darling Harbour

South Steyne is a historic ferry permanently tied up near the Maritime Museum, and is within walking distance from most hotels in Darling Harbour, CBD, Central Station, and the Casino. Light rail (Pymont Bay Station), monorail and bus services are available.

SATURDAY, 2 JULY 2011

8:30 – 10:00 CONCURRENT SESSION 7

*Location: Ritchie Theatre, Gallery 1, Gallery 2, Civil Eng G1, Peter Farrell, Gonski,
The John Niland Scientia Building, UNSW*

10:00 – 10:30 COFFEE BREAK

Sponsored by the 2012 Conference Organizing Committee

10:30 – 12:00 CONCURRENT SESSION 8

*Location: Ritchie Theatre, Gallery 1, Gallery 2, Civil Eng G1, Peter Farrell, Gonski,
The John Niland Scientia Building, UNSW*

12:00 – 13:00 CLOSING SESSION

Location: Ritchie Theatre, The John Niland Scientia Building, UNSW

Report on the 2011 Conference

*Prof Jason Middleton, Conference Chair
University of New South Wales*

*Prof. Anming Zhang, Scientific Program Chair
University of British Columbia*

Report on the Publications

Prof. Sveinn Gudmundsson

Appreciation Awards and ATRS Business Report

*Prof. Tae Oum, President
Air Transport Research Society*

ATRS Financial Report

Prof. Chunyan Yu

2013-14 ATRS World Conference Sites

Prof. Martin Dresner

Invitation to the 2012 ATRS World Conference at Tainan, Taiwan

2013 Conference Chair : Prof. Joel Shon

Other Business

Adjournment

SUNDAY, 3 JULY 2011

10:00 – 12:00 POST CONFERENCE TOUR

Location: Vessel Tribal Warrior

This tour is run by an indigenous training organisation and offers insights into Sydney before white settlement in 1788.

BIOGRAPHIES

PROF. MERLIN CROSSLEY, DEAN, FACULTY OF SCIENCE UNSW

Merlin Crossley completed his BSc degree at the University of Melbourne, majoring in genetics and microbiology. He was awarded a Rhodes Scholarship and following a post-doctoral period at Oxford University took a research position at Harvard Medical School. He later joined the University of Sydney and established a laboratory investigating DNA-binding molecules and gene control. He was Professor of Molecular Genetics and served as Sydney's Acting Dean of Science throughout 2004, then as the Director of Research in the University's College of Sciences and Technology. From 2006 to the end of 2008 he was Acting Deputy Vice-Chancellor Research. His awards include the Australian Academy of Science's Gottschalk Medal, the Royal Society of NSW's Edgeworth David Medal, and the Australian Society for Biochemistry and Molecular Biology's Roche Medal. He joined UNSW as Dean of Science in January 2010.

PROF. TAE HOON OUM, PRESIDENT, AIR TRANSPORT RESEARCH SOCIETY

Tae Oum is the UPS Foundation Chair Professor at Sauder School of Business, University of British Columbia, the President of the Air Transport Research Society (ATRS), and Editor, Journal of Transport Economics and Policy. He also serves on Editorial Boards of nine other international journals. His research and teaching interests are in the areas of economics, management and policy analysis in transport/logistics sectors.

He has authored/co-authored 31 books, over 110 refereed academic journal papers, and numerous reports for international organizations including World Bank, OECD, International Transport Forum, APEC, and for various government agencies, regulatory commissions and major corporations (Canada, United States, UK, Netherlands, Japan, Korea, Australia, New Zealand, Singapore). He has delivered over 300 keynote addresses, invited speeches/seminars, and presentations.

PETER HARBISON, EXECUTIVE CHAIRMAN OF CAPA

Peter Harbison established the Centre in 1990; today it produces the leading range of executive analysis, newsletters and information reports, covering the global aviation industry.

He is also Chairman of CAPA AeroPark, an affiliate of CAPA and of CAPA India, the company's consulting arm for the sub-continent. CAPA AeroPark is to be a major, comprehensive global aviation training and education campus, based in India. Peter is an aviation consultant and commentator on industry issues. His career in aviation comprises more than 40 years, in government and in industry, including two years with the Australian mission to the International Civil Aviation Organisation and 10 years at a senior level in the International Air Transport Association, IATA. Peter was until recently President of the Australian Aviation Council, was formerly Chairman of IATA's World Aviation Regulation Monitoring Group, President of the Aviation Law Association of Australia and New Zealand and a former IATA Travel Agency Commissioner.

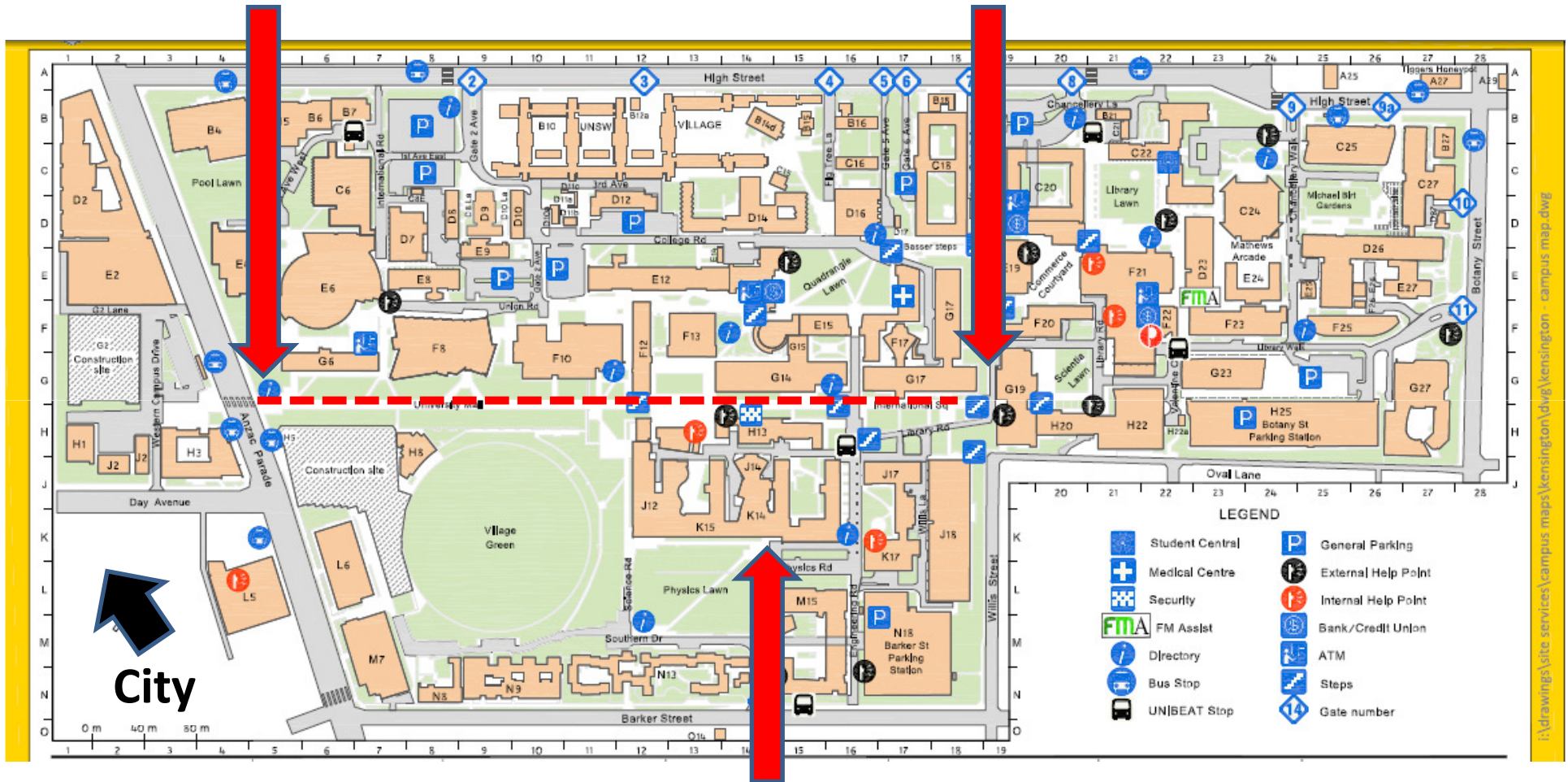
BIOGRAPHIES

PROFESSOR ANN WILLIAMSON, PROFESSOR OF AVIATION SAFETY

Professor Ann Williamson's research in the area of human factors is focused on two related areas; the effects of fatigue and the role of human error in injury and safety. After working as a Research Scientist for the NSW Government in the Department of Industrial Relations, Division of Occupational Health, Prof Williamson moved to the National Institute of Occupational Health and Safety where she was Principal Research Scientist and Head of the Human Factors and Ergonomics Unit. During her time at the Institute, Ann's research addressed injury related to fatigue and working hours, the role of behaviour in the causes of injury; and the neurobehavioural effects of exposure to workplace hazards . This work has continued following her move to the University of New South Wales, where Ann established the NSW Injury Risk Management Research Centre. Ann's contributions to the area of injury prevention includes membership of the board of the Journal of Safety Research.

**Main UNSW Bus Stop
Anzac Parade**

**Conference Venue
UNSW - Scientia**



La Perouse & Malabar to City via Anzac Parade



Dinner
South
Steyne



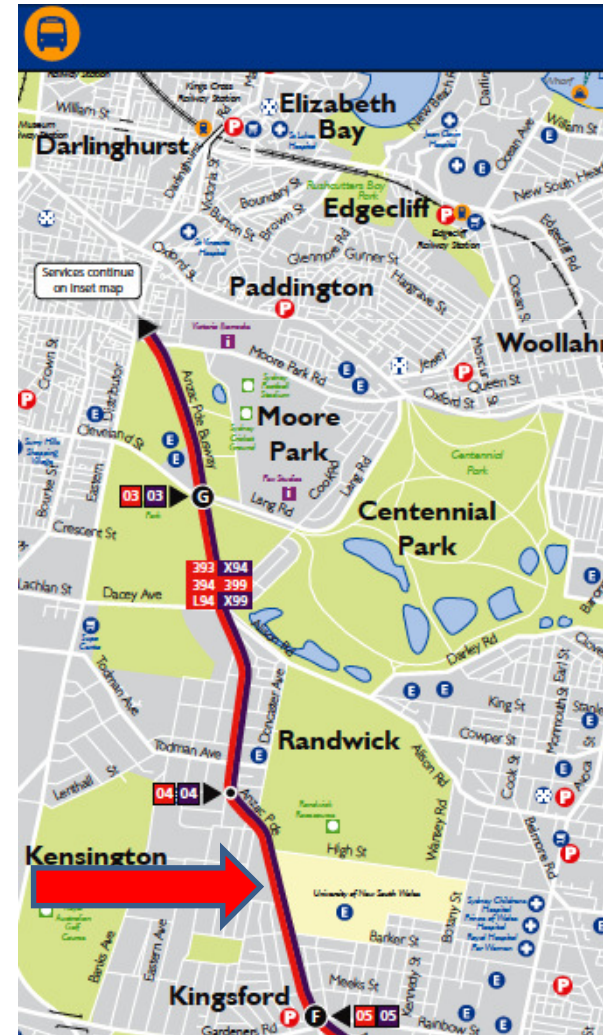
Central
Station



Welcome
Strawberry
Hills Hotel

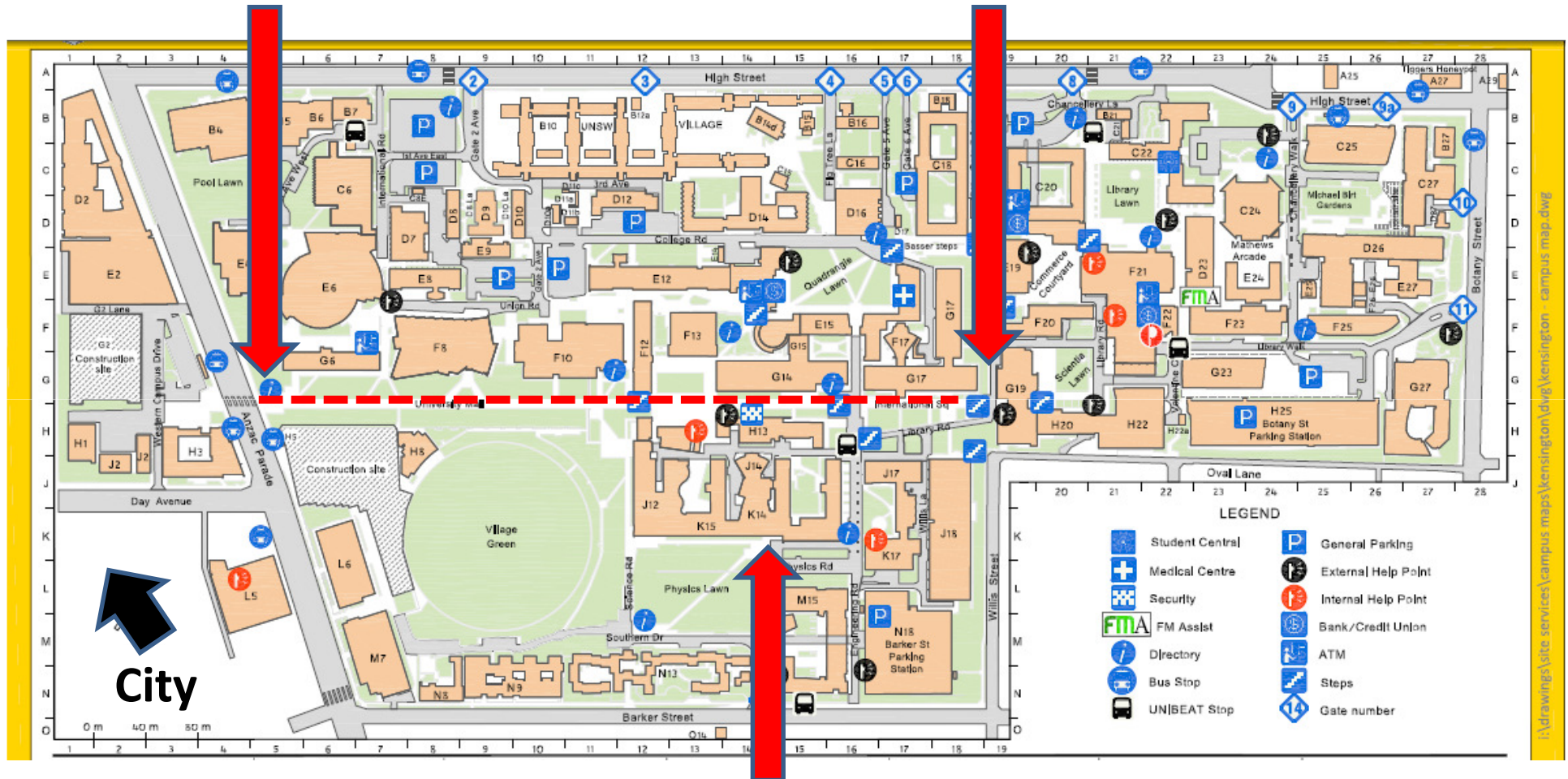


UNSW
Conference
Venue



**Main UNSW Bus Stop
Anzac Parade**

**Conference Venue
UNSW - Scientia**



University Mall

**School of Aviation
2nd Floor – Old Main Bldg
+61 -2 -9385 6767**

La Perouse & Malabar
to City via Anzac Parade



Dinner
South
Steyne



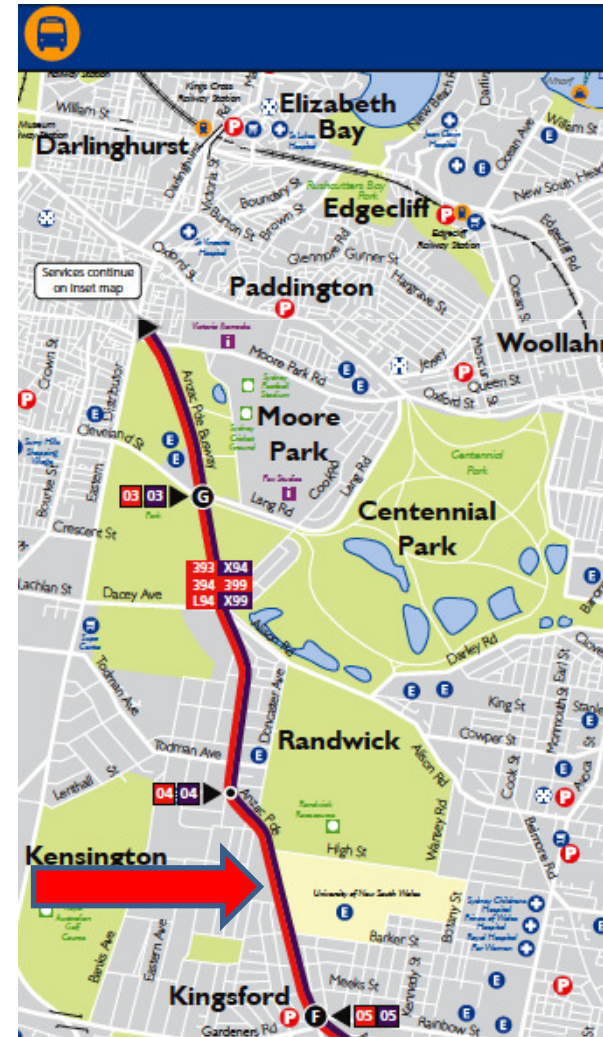
Central
Station



Welcome
Strawberry
Hills Hotel



UNSW
Conference
Venue



THURSDAY, 30 JUNE 2011

CONCURRENT SESSION 1 (13:30 – 15:00)

SESSION 1A – AIR TRAVEL DEMAND I – : RITCHIE THEATRE

Chair: Martin Dresner - University of Maryland, the United States

- 132 Ayudh Nakaprasit, Keith J. Mason *Cranfield University, UK*
An Investigation of Airline Brand Equity
- 23 Shih-Yao Kuo, Shu-Chuan Chen *Aletheia University, Taiwan*
The effect of service quality, perceived value, satisfaction, brand equity and brand preference on air passengers' behavioral intentions
- 2 Andreas Wittmer *University of St. Gallen, Switzerland*
Impact of an Economic Crisis on the Role off Mileage Programs and the Passengers' Choice of an Airline
- 47 Berendien Lubbe, Anneli Douglas, Lesley Wieme *University of Pretoria, South Africa*
The importance of frequent flyer programmes in the selection of a preferred airline

SESSION 1B – AIRLINE ECONOMICS I – : GALLERY 1

Chair: Anming Zhang - University of British Columbia, Canada

- 167 Andreas Knorr, Melanie Nofz *German University of Administrative Sciences Speyer, Germany*
Price Unbundling, Airline Fees And Surcharges And Consumer Protection
- 190 Hideki Murakami, Ryota Asahi *Kobe University, Japan*
An empirical analysis of the effect of multimarket contacts on air carriers' pricing behaviors: A case of the U.S.
- 20 Christian Hofer *University of Arkansas, USA*
On Airline Pricing Behavior During The Downturn And Recovery Phases Of Financial Turnarounds
- 191 Navatasn Kongsamutr *Kasetsart University, Thailand*
Competitor Anallsyis And Competitive Rivary Matrix Of Airline Industry In Thailand
- 129 Christiaan Behrens *VU Amsterdam, Netherlands*
Nathalie C McCaughey *Monash University, Australia*
Paying for Status? The effect of frequent flier program status on air fare choice over time

THURSDAY, 30 JUNE 2011

SESSION 1C – AIRLINE STRATEGY AND MANAGEMENT I - : CIVIL ENG G1

Chair: Yeong Heok Lee - Korea Aerospace University, South Korea

- 288 Jung Kyu Choi, Cheng-Lung Wu *The University of New South Wales, Australia*
Providers' partner choice behavior of airfreight services in emerging business structure
- 61 Rico Merkert *Cranfield University, UK*
David A. Hensher *The University of Sydney, Australia*
The importance of completeness and clarity in air transport contracts: an international comparison
- 32 James J.H. Liou, Chao-Che Hsu *National Taipei University of Technology, Taiwan*
A Hybrid Model for Selection of an Outsourcing Provider in Airline Industry
- 36 Nicolas Dilger, Patrick Spieth *EBS Business School, Germany*
Outsourcing of Flight Operations as Business Model Innovation for the Airline Industry – The Current Academic View on Outsourcing in the Airline Industry
- 252 Blaise Waguespack, Steven Foley, Joshua Hirschheimer, *Embry Riddle Aeronautical University, USA*
Martin Peter Moses, Thomas Simms
US Legacy Carriers, Frequent Fliers Programs and Credit Card Partners
- 271 E. G. Kefallonitis & J. Barnes *State University of New York, USA*
Passenger Driven Airline Brand Design

SESSION 1D – ENVIRONMENTAL ISSUES I - : HK ALUMNI

Chair: Paul Hooper, Department of Transport, UAE

- 316 Sveinn Vidar Gudmundsson *Toulouse Business School, France*
Moshe Givoni *University of Oxford, UK*
The environmental and economic impact of slower commercial flight
- 140 Baek-Jae Kim, Kwang-Eui Yoo, Youn-Chul Choi *Korea Aerospace University, South Korea*
A Study on the influence of CO2 constraints to airlines on passenger behavior
- 306 Sang-Yong HAN *Korea Transport Institute, South Korea*
Tae Seung KIM *Inha University, South Korea*
A Comparative Analysis of Fuel Efficiency and CO2 emission in the Aviation Industry among OECD Countries
- 145 Jin-Long Lu *Chang Jung Christian University, Taiwan*
Joel Z. Y. Shon *Tainan University of Technology, Taiwan*
Exploring airline passengers' willingness to pay for carbon offset
- 185 Cherie Lu *Chang Jung Christian University, Taiwan*
Peter Morrell *Cranfield University, UK*
Is there an optimal size of an airport? ~ including externalities in a comparison of marginal benefit and marginal cost

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SESSION 1E - SAFETY AND SECURITY I - : RONALD LU

Chair: Ann Williamson - University of New South Wales, Australia

- 10 James R. White *United States Federal Aviation Administration, USA*
United States Federal Aviation Administration Research for improvements in Airport Safety
- 133 John Gadzinski *Four Winds Consulting, USA*
The Hidden Dangers of Runway Excursions
- 121 Ricardo Rodrigues Pacheco *Empresa Brasileira de Infraestrutura Aeroportuária, Brazil*
Elton Fernandes, Eduardo Domingos *Universidade Federal do Rio de Janeiro, Brazil*
Airport Airside Fuzzy Safety Index
- 42 Cheng-Min Feng, Chi-Chun Chung *National Chiao Tung University, Taiwan*
Airport Risk Assessment through FMECA and Fuzzy Logic Control
- 63 Olja Čokorilo, Petar Miroslavljević *University of Belgrade, Serbia*
Method for assessing third party risk around aircraft flying area

SESSION 1F - AIRPORT OPERATION I - : PETER FARRELL

Chair:

- 132 Matthias Groppe, Romano Pagliari *Cranfield University, UK*
Aircraft's Off-Block Time During Irregular Turn-Round Operation: The Influence Of Cooperative Information Sharing On Off-Block Time Prediction Accuracy
- 93 Gerald Öttl, Philipp Böck, Nadja Werpup, Malte Schwarze *Technische Universität München, Germany*
Derivation of Representative Peak Hour Air Traffic Scenarios as a Standard Input for Airport Related Simulation
- 169 Alexandre G. de Barros *University of Calgary, Canada*
An Erlang Approach To Stochastic Spreadsheet Simulation Of Airport Check-In Operations
- 218 Wenbin Wei, Minnie H. Patel, Mingfeng Tan, Amy Choy *San Jose State University, USA*
Scenario Tree-based Stochastic Programming for Integrated Airport Surface Operations under Uncertainties
- 51 Giovanna Miceli Ronzani Borille, Anderson Ribeiro Correia *Instituto Tecnológico de Aeronáutica, Brazil*
Simulation models to analyze different scenarios of international arrival at airports

SESSION 1G - AVIATION AND TOURISM - : GONSKI

Chair: Peter Forsyth, Monash University, Australia

- 178 Tay R. Koo *University of New South Wales, Australia*

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David Tan
David Timothy Duval

*The Australian National University, Australia
University of Winnipeg, Canada*

Air transport capacity and tourism demand interaction: an error correction model approach

27 Anne Graham, Nigel Halpern

University of Westminster, UK

Airports as venues for business tourism

83 Sergio de Castro Ribeiro, Marcio Peixoto de Sequeira Santos, Carla Conceição Lana Fraga

Federal University of Rio de Janeiro, Brazil

Sustainable Tourism Development: A Study on Brazilian Airport

107 Risa Morimoto

Toulouse Business School, France

Civil aviation and economic growth: a Sustainability Strategy

CONCURRENT SESSION 2 (15:30 – 17:00)

SESSION 2A – AIR TRAVEL DEMAND II – : RITCHIE THEATRE

Chair: Narjess Teyssier, ICAO

112 Nathalie C McCaughey,
Dr. Keith Mason FRAeS

*Monash University, Australia
Cranfield University, UK*

This is the least my company can do for me' Attitudes and willingness-to-pay of business travellers towards Frequent Flier Programs

77 Yu-Chun Chang
Ching-Fu Chen

*National Taiwan Ocean University, Taiwan
National Cheng Kung University, Taiwan*

Factors affecting overseas travel choice behavior for Person with Reduced Mobility

162 Yu-Chiun Chiou, Yen-Heng Chen

National Chiao Tung University, Taiwan

Investigating the structural relationships among factors affecting behavioral intentions of business and leisure air passengers

250 Ali Rezaei, Mohammadreza Ebrahimpour, Mohsen Rezaei

Sharif University of Technology, Iran

Investigating International passengers' Characteristics and Choice Behavior in a Low-Frequency Market

SESSION 2B – AIRLINE ECONOMICS II - : GALLERY 1

Chair: Yimin Zhang, China Europe International Business School, China

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- 18 Kai Hüschelrath, Kathrin Müller *ZEW Centre for European Economic Research, Germany*
Market Entry and the Evolution of the U.S. Airline Industry, 1995-2009
- 184 Hidenobu Matsumoto, *Kobe University, Japan*
Rogier Lieshout, Jan Veldhuis, Guillaume Burghouwt *SEO Economic Research, Netherlands*
Effects of Korean air carriers' network developments on route choice behavior of travelers departing from Japan
- 183 Fabiene Cristina de Carvalho da Costa, Marcela Rubert *Universidade Federal do Rio de Janeiro, Brazil*
The Impact Of The Entrance Of A New Airline Company In The Brazilian Market
- 118 Alex Cosmas, Robert Love *Booz Allen Hamilton, USA*
Dr. Marco Linz *EBS Business School, Germany*
Structure and performance of US O&D markets: Market clusters and market types

SESSION 2C – AIRLINE STRATEGY AND MANAGEMENT II – CIVIL ENG G1

Chair:

- 45 Wouter Dewulf, Hilde Meersman, Eddy Van de Voorde *University of Antwerp, Belgium*
Measurement of key decision factors in the management strategy of air cargo carriers
- 203 Kristian A. Hvass, Lise Kristensen *Department of International Economics and Management, Denmark*
Impacts Of Internationalization Of Front Line Personnel
- 79 Petar Miroslavjevic, Slobodan Gvozdenovic, Olja Cokorilo, *University of Belgrade, Serbia*
Ljubiša Vasov
**The Transport Aircraft Dynamic Cost Index
Determination Method: The Medium Range Routes**
- 71 Daniel Mabazza *Muroran Institute of Technology, Japan*
The possibility of operating smaller aircrafts in Japanese skies

SESSION 2D – ENVIRONMENTAL ISSUES II - :HK ALUMNI

Chair: Sveinn Vidar Gudmundsson - Toulouse Business School, France

- 304 Anthony T.H. Chin, Zhang Peng *National University of Singapore, Singapore*
Carbon Emission Trading Scheme and the Aviation Sector: An experimental analysis on allocation of allowances
- 70 Annela Anger *University of Cambridge, UK*
The Effects of Auctioning Allowances Allocated to Aviation in the EU ETS
- 230 Cherie Lu, Kindy Yong *Chang Jung Christian University, Taiwan*

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The review and applications of market-based measures in the air transport industry

- 293 Mehmet Özmen *Monash University, Australia*
Carbon Taxation Responses In The Aviation Industry
- 221 Gustavo Alonso, Arturo Benito, Javier Tafur *Technical University of Madrid, Spain*
Relationships Between New ATM Developments And The European Emission Trading Scheme
- 46 Tuba Toru *Toulouse School of Economics/EHESS, France*
European air traffic facing raising fuel prices and carbon permits: an empirical analysis

SESSION 2E - SAFETY AND SECURITY II - : RONALD LU

Chair: Jason Middleton, University of New South Wales, Australia

- 8 Yu-Hern Chang, Meng-Yuan Liao, Chien-Chen Kuo *National Cheng Kung University, Taiwan*
Effect of Commercial Airlines' Cabin Crew Training to their Flight Safety Performance
- 142 J. Bryan Burrows-McElwain, I.K. Dabipi, Joseph Doodoo, Chris Hartman *University of Maryland Eastern Shore, USA*
Pilot Collusion: The hazards of the status quo
- 166 Yueh-Ling Hsu *Kainan University, Taiwan*
Chao-Che Hsu *Tamkang University, Taiwan*
The Effectiveness Of Cabin Safety Communication - An Example Of Boeing 747-400 Safety Briefing Card
- 209 Sadeqh Aghaee, Mohsen Eini, Masood Rezaee *Safety & Quality Assurance Specialist, Iran*
The Effectiveness Analysis of Safety Management System (SMS) Establishment and Implementation in an Iranian Airline Safety Level
- 237 Fernando de Oliveira Gil, Joao Batista Camargo Junior *University of São Paulo, Brazil*
Safety Assessment Methodology of the Communication Network Delay Impact in Terminal Areas with Controller-pilot Data Link Communications (CPDLC)

SESSION 2F - AIRPORT OPERATION II - : PETER FARRELL

Chair: Alexandre G. de Barros, University of Calgary, Canada

- 124 Tim Alers, *German Aerospace Center Cologne, Germany*
Holger Appel, Kerstin Büker, Sebastian Kellner *RWTH Aachen, Germany*
Supporting Airport Process Improvements By Simulation Of Solutions To Bottlenecks
- 40 Wan Mazlina Wan Mohamed, Ahmed Jaffar, Adibah Shuib *Universiti Teknologi MARA (UiTM), Malaysia*
Towards the development of airport operation value model using bayesian networks

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approach

- 29 Jana Schroeder *Brisbane Airport Corporation Pty Ltd, Australia*
Curfews at international airports - a study of current practice
- 161 João Carlos Medau, Nicolau D. Fares Gualda *Universidade de São Paulo, Brazil*
Almeida Prado *Cidade Universitária, Brazil*
Level Of Service Analysis Of Sao Paulo - Congonhas Airport Passenger Terminal
- 57 Andreas Deutschmann *German Aerospace Center, Germany*
Prediction of airport delays based on methods of non linear physics and the impact on total airport management
- 192 Jin-Woo Park, Se-Yeon, Jung *Korea Aerospace University, South Korea*
Transfer passenger's evaluation of airport service quality: a case study of Incheon International Airport

SESSION 2G - AVIATION AND ECONOMIC DEVELOPMENT I - : GONSKI

Chair: Tay Koo - University of New South Wales, Australia

- 38 Nigel Halpern, Svein Bråthen *Molde University College, Norway*
Impact of airports on regional economic competitiveness
- 127 Florian Allroggen, Robert Malina *University of Muenster, Germany*
The Generation Of Accessibility By Air Traffic And Its Economic Effects: Causality And Spatial Spread
- 245 Mahmoud Saffarzadeh, Poorya Zanganeh Ranjbar, *Tarbiat Modares University, Iran*
Shahab Hassanpour, Babak Mirbaha
Developing the Conceptual Model of the Airport Financial Operation Using Input-Output Method
- 274 Isabel Cristina dos Santos, *Institute of Aeronautical Technology, Brazil*
Antonio Henriques de Araújo Júnior
Entrepreneurship, Innovation And Regional Development: A Study Of Regional Technology-Based Industries
- 179 Zheng Xingwu *Civil Aviation University of China, China*
The Sources of Economic Growth in China's Civil Aviation Industry

FRIDAY, 1 JULY 2011

CONCURRENT SESSION 3 (9:00 – 10:30)

SESSION 3A – AIR TRAVEL DEMAND III - : GALLERY 2

Chair: Dieter Wilken, German Aerospace Center, Germany

- 295 Daniel Sallier *Aéroports de Paris, France*
Daily Demand Distribution & Flight Programme Attractiveness For The Passengers On A City Pair
- 224 Yu-Chun Chang, Ching-Fu Chen *National Taiwan Ocean University, Taiwan*
Airport ground access mode choice behavior for elderly air passengers
- 30 Nadine Itani, John F. O'Connell, Keith Mason *Cranfield University, UK*
The Impact of National Expatriate Communities on Air Travel Demand in a Liberal Market with Political Volatility – A Case Study on Lebanon
- 205 Kazuyuki Takada, Norio Tajima *Tokyo Denki University, Japan*
Makoto Fujiu *The University of Tokyo, Japan*
Simulation Based Estimation Of Origin-Destination Matrix Of International Air Passenger Demand
- 318 Emine Yetiskul *Middle East Technical University, Turkey*
Metin Senbil *Gazi University, Turkey*
Air Passenger Demand Analysis in Turkey: Historical Perspectives and Future Prospects

SESSION 3B – AIRLINE ECONOMICS III - :GALLERY 1

Chair: Cristina Barbot, University of Porto, Portugal

- 85 Yimin Zhang *China Europe International Business School, China*
Ming Hsin Lin *Osaka University of Economics, Japan*
Airline Scheduling and Aircraft Size in Hub-Spoke Networks with Traffic Growth
- 53 Jan Willem Kappes, Rico Merkert *Cranfield University, UK*
Barriers to entry into European aviation markets revisited – a review and analysis of managerial perceptions
- 317 Emine Yetiskul, *Middle East Technical University, Turkey*
Kiyoshi Kobayashi *Kyoto University, Japan*
Airline Schedule Competition
- 249 Adél Németh *University of Applied Sciences Bremen, Germany*
The (Market) Power Of European Airlines – Implications For Competition Policy And Airline Strategy

FRIDAY, 1 JULY 2011

SESSION 3C – AIRLINE STRATEGY AND MANAGEMENT III - : CIVIL ENG G1

Chair: Robert Windle, University of Maryland, USA

- 66 Richard D. Gritta, Bahram Adrangi, Brian Adams *University of Portland, USA*
Airline financial strategies and the effects of leverage on carrier earnings
- 199 Zeliha Akca, Omer Saka, Cengiz Polat *Ataturk Airport, Turkey*
Aircraft Life Cycle Costing To Determine Operation And Acquisition Strategies
- 259 Michael Grundy, Richard Moxon *Cranfield University, UK*
An Assessment Of The Effectiveness Of Crisis Management On Brand Protection
- 298 Serap Benligiray, Gamze Özsoy, Cengiz Mesut Bükeç *Anadolu University, Turkey*
An Exploratory Study: Effectiveness Of Mission Statements On The Airline Web Sites
- 126 Sujith Nair, Miguel Palacios, Javier Tafur *UPM (Technical University of Madrid), Spain*
Flexibility in airline business models with core competence as an indicator

SESSION 3D – ENVIRONMENTAL ISSUES III - : HK ALUMNI

Chair: Annela Anger, University of Cambridge, UK

- 186 Bruno Luis de Carvalho da Costa, Fabiene Cristina de Carvalho da Costa *Cidade Universitária, Brazil*
Emissions Of Greenhouse Gases Of The Brazilian Air Transportation Sector
- 188 Rogéria de Arantes Gomes Eller, Gustavo Medeiros *Technological Institute of Aeronautics, Brazil*
Souza, Alessandro Vinicius Marques de Oliveira
Inventory Of Pollutant Emission From Brazilian Commercial Aircraft
- 163 Thomas J. Bommer *UAE*
The Air Cargo Industry and Global Warming - Present & Future Greenhouse Gas Emissions of The Maindeck Freighter Fleet
- 200 Cherie Lu, Henry Chiu *Chang Jung Christian University, Taiwan*
The Environmental Cost Implications of New Generation Aircraft on Airport and Airline Operations

SESSION 3E - SAFETY AND SECURITY III - : RONALD LU

FRIDAY, 1 JULY 2011

Chair:

- 48 Sunder Raghavan, Jayathi Raghavan *Embry-Riddle Aeronautical University, USA*
Financial Health and Airline Safety
- 41 Liang Zeng, Jing Li *Center of Aviation Safety Technology, CAAC, China*
The Application of Analytic Hierarchy Process and Fuzzy Evaluation for Risk Assessment in Civil Aviation
- 76 Hilton Notini, Bruno Hidalgo Rodrigues *National Civil Aviation Agency, Brazil*
Safety Indicators for General Civil Aviation in Brazil
- 135 Yu-Hern Chang, Hubert J. Chen & Pei-Chi Shao *National Cheng Kung University, Taiwan*
Analysis Of Aircraft Accident Model In Taiwan
- 227 Shahrokh Zohrabzadeh Bozorgi, Rouzbeh Yousefi *Arapi System Engineering Consultants, Iran*
Pedram Keshavarzian *The University of New South Wales, Australia*
Root Cause Study and Analysis of Air Accidents in Iranian Civil Aviation Industry
- 12 Meng-Yuan Liao, Alex, Y. L. Lu, Yu-Wei Chang *Aletheia University, Taiwan*
The Evaluation of Cabin Safety Education Program to Children: Knowledge and Attitude

SESSION 3F - AIRPORT OPERATION III - : PETER FARRELL

Chair: Anderson Correia, Aeronautics Institute of Technology, Brazil

- 275 Luiz Antonio Tozi, *Instituto Tecnológico de Aeronáutica, Brazil*
Michelle Silvia Salazar, Erick dos Santos Cristovão *Faculdade de Tecnologia de São José dos Campos, Brazil*
Analysis Of Truck Congestion At Brazilian Air Cargo Terminal
- 300 Zhang Chen, Xiong Jie *Civil Aviation Administration of China (CAAC), China*
Modeling Airport Gate Operation to Estimate Airport Gate Capacity
- 228 I.K. Dabipi, Joseph Dodoo, J. Bryan Burrows-McElwain, *University of Maryland Eastern Shore, USA*
Chris Hartman
Modeling Small Regional Airport Operations using FlexSim and Google tools: An undergraduate research project
- 280 Makoto Fujii *The University of Tokyo, Japan*
Kazuyuki Takada *Tokyo Denki University, Japan*
Comparative Study Of Ground Access To 24-Hour Airport

SESSION 3G - AVIATION AND ECONOMIC DEVELOPMENT II - : GONSKI

FRIDAY, 1 JULY 2011

Chair: Joel Shon, Tainan University of Technology, Taiwan

- 258 Stephen J. Appold, John D. Kasarda *Kenan Institute of Private Enterprise, USA*
Airport and Airport City Business Models in Regional Context
- 9 Khaula A. Alkaabi, Keith G. Debbage, and Ahmad Bin Touq *UAE University, UAE*
The Impact of Aviation-related Growth on Urban Development in the United Arab Emirates
- 17 Prof. Kurt Fuellhart *Shippensburg State University, USA*
Prof. Kevin O'Connor *University of Melbourne, Australia*
Cities and Air Services: The Influence of the Airline Industry
- 16 Mirjam Wiedemann, Professor Kerry Brown *Southern Cross University, Australia*
Is infrastructure a key element of economic growth in an airport metropolis' region?
- 282 Vasco Domingos Reis, Mauro José Aguiar Peneda, *Universidade Técnica de Lisboa, Portugal*
Maria do Rosário M.R. Macário
Critical Factors For The Development Of Airport Cities

CONCURRENT SESSION 4 (10:45 – 12:15)

SESSION 4A – INTER-MODAL AND AIR TRAVEL ALTERNATIVES - :GALLERY 2

Chair:

- 50 Anneli Douglas, Berendien Lubbe *University of Pretoria, South Africa*
Factors influencing the use of ICTs as a travel alternative for business travel
- 56 Ioannis P. Rasoglou *Aristotle University of Thessaloniki, Greece*
Air transport inter-modal competition in the Greek domestic market
- 195 Chiung-Wen Chang *Ministry of Transportation and Communications, Taiwan*
Pin-Yi Tseng *Central Police University, Taiwan*
The Impacts Of High Speed Rail Service On Air Transport
- 314 Xiaowen Fu *The Hong Kong Polytechnic University, Hong Kong*
Zheng Lei *Cranfield University, UK*
Anming Zhang *University of British Columbia, Canada*
Effects of High Speed Rail Development on Chinese Airlines and Airports
- 322 Tae H. Oum *University of British Columbia, Canada*
Somchai Pathomsiri *Mahidol University, Thailand*
Yuichiro Yoshida *National Graduate Institute for Policy Studies, Japan*
Comparative Analysis of Social Efficiency Performance of Airlines and Railway in Japan's Domestic Intercity Travel Market

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SESSION 4B – AIRLINE ECONOMICS IV - : GALLERY 1

Chair: Richard Gritta, University of Portland, USA

- 52 Omar Sherif Elwakil, Robert Windle *University of Maryland, USA*
US-Canadian Air Passenger Traffic: More Than It Appears?
- 283 Seung Chang Lee *Korea Aerospace University, South Korea*
Sung Hee Chung *Knowledge Service R&D Center, South Korea*
Dong Sook Ko *Cheju Tourism College, South Korea*
The Consumers' Perception Upon The Part-Worth Value About The Airfare Restrictions
- 86 Zain Al Zubaidi, Ahmed Al Ameri, Fatima Al Kaabi *Emirate of Abu Dhabi Department of Transport, UAE*
Monitoring pricing behaviour of airlines in the GCC region
- 168 Andreas Eichinger *FRAPORT AG, Germany*
Andreas Knorr *German University of Administrative Sciences Speyer, Germany*
Fuel Surcharges: Antitrust And Consumer Protection Issues
- 279 Nadine Roth *University of Canterbury, New Zealand*
Chances And Risks Of Mobility Pricing - Lessons To Learn From Other Traffic Modes

SESSION 4C – AIRLINE CASE STUDIES - : CIVIL ENG G1

Chair: Vedapuri Raghavan, Embry Riddle Aeronautical University, USA

- 173 Hongwei Jiang *Royal Melbourne Institute of Technology (RMIT University), Australia*
An Investigation Of Airline Service Quality And Passenger Satisfaction – The Case Of China Eastern Airlines
- 211 Jun Mizutani, Muneki Yokomi *Osaka University of Commerce, Japan*
Airline Merger and Productivity: Why did JAL go bankrupt?
- 270 Humberto Bettini, Alessandro Oliveira *Latin American Center for Transportation Economics, Brazil*
Azul Airlines: mapping out its competitive profile and the reactions triggered
- 60 Yiannis S. Lainos *Aviation Business Consultant, Greece*
The content of employees' representatives participation in corporate decision making centers: The case study of Olympic Airways – O.A. (Greece)

SESSION 4D – ENVIRONMENTAL ISSUES IV - : HK ALUMNI

Chair: Risa Morimoto, Toulouse Business School, France

- 286 Jean Bresson *Ecole Nationale de l'Aviation Civile, France*
Environmental & Prospective Tools - GAMMA (Generator of Aircrafts and Motors required

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to Manage the Air transport demand)

- 72 Steffen Weidner *Technische Universität Berlin, Germany*
Heinrich Mensen *Hochschule RheinMain, Germany*
Markus Kreher *Lufthansa, Germany*
Environmental friendly aircraft operations in the vicinity of airports – possible flight ranges and limits by pilots
- 157 Sakti Adji Adisasmita, Tri Harianto *Hasanuddin University, Indonesia*
Airport And Land Use Development Based On Noise Contour Area And Spatial Plan Concepts
- 215 Arturo Benito, Gustavo Alonso *Polytechnic University of Madrid, Spain*
Ana Luengo *SENASA, Spain*
The Efficiency Of Noise Abatement Operating Restrictions

SESSION 4E - SAFETY AND SECURITY IV - : RONALD LU

Chair: James White, Federal Aviation Administration, USA

- 89 Uwe Meinberg, Linda Huber, Rüdiger Hyka, *Fraunhofer Application Centre for Logistics System*
Alf Papproth, Christian Stegner *Planning and Information Systems ALI, Germany*
Agent-Based Simulation of Security Related Logistics Processes on Airports
- 106 Mara Cole, Oliver Schwetje *Bauhaus Luftfahrt e.V., Germany*
Maik Maurer *Teseon GmbH, Germany*
Sensitivity Analysis For A Future-Oriented Optimization Of Airport Security
- 294 Do-Hyun, Kim & Han-Mo, Yang *Hanseo University, South Korea*
A Study on the Probabilistic Risk Assessment to Runway Sight Distance
- 266 Hamed Sheikhpour *South Azad University of Tehran, Iran*
The development of a more-flexible third party risk assessment around crowded metropolitan airports
- 65 Ching-Fu Chen, *National Cheng Kung University, Taiwan*
Shu-Chuan Chen *Aletheia University, Taiwan*
Scale development of safety management system evaluation in airline industry
- 175 Ana Maria Vieira *Instituto Tecnológico de Aeronáutica – ITA, Brazil*
Social Skills Training In Flight Schools A Proactive Tool For Management Threats And Risks

SESSION 4F - AIRPORT PLANNING AND MANAGEMENT I - ; PETER FARRELL

Chair: Chunyan Yu, Embry Riddle Aeronautical University, USA

- 311 Wen-Chun Tseng, Cheng-Lung Wu *The University of New South Wales, Australia*

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Allocation of passengers' dwell time and expenditure budgets at airport terminal

- 165 Batari Saraswati, Shinya Hanaoka *Tokyo Institute of Technology, Japan*
Space Allocation For Commercial Activities At Low Cost Airport Terminal
- 208 Cheng-Lung Wu *University of New South Wales, Australia*
Yi-Shih Chung *Kainan University, Taiwan*
Wan-Erh Chiang *Fu Jen Catholic University, Taiwan*
The Influence of Airport Concession Information Provision, Accessibility and Acquirement on Air Passengers' Purchase Behaviour in a Terminal
- 267 Rohafiz Sabar, Rodney Fewings *Universiti Utara Malaysia, Malaysia*
Preferences of Passengers towards the Availability of Commercial Facilities at Kuala Lumpur International Airport Low Cost Terminal (KLIA LCT), Malaysia
- 97 Yi-Hsin Lin *Asia University, Taiwan*
Ching-Fu Chen, Yu-Hern Chang *National Cheng Kung University, Taiwan*
The Effects of Time Pressure between Shopping Motivations and Choice of Commercial Activities at the airport

SESSION 4G - AIR TRANSPORT POLICY AND REGULATION I - : GONSKI

Chair:

- 120 Dr. Keith Mason *Cranfield University, UK*
Dr William G. Morrison *Wilfrid Laurier University, Canada*
European Liberalization And The Evolution Of 'Low Cost' Airline Business Models
- 58 Kenneth Button *George Mason University, USA*
How Right was Alfred Kahn in his Predictions about the Impacts of the Deregulation of US Domestic Airline Market?
- 138 Nathalie C McCaughey *Monash University, Australia*
'Unregulated, untaxed and under the radar' - A theoretical and empirical investigation of the tax treatment of frequent flier programs
- 141 Hulya Goktepe *Anadolu University, Turkey*
The Enforcement Of Competition Law In The Air Transportation In Turkey
- 253 Peter Forsyth *Monash University, Australia*
Hans-Martin Niemeier *University of Applied Sciences, Germany*
Measuring the Economic Impact of Air Passenger Taxes

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CONCURRENT SESSION 5 (14:00 – 15:30)

SESSION 5A – MARKET OUTLOOK & FUTURE DEVELOPMENT OF AIR TRANSPORT I - GALLERY2:

Chair: Anthony Chin, National University of Singapore, Singapore

- 130 Narjess Teyssier *International Civil Aviation Organization (ICAO)*
**Global and Regional 20-year Forecasts for Pilots • Maintenance Personnel • Air Traffic
Controllers**
- 49 Sakti Adji Adisasmita *Hasanuddin University, Indonesia*
**Forecasting on Passenger and Cargo in Supporting the Development of Air Transport
Infrastructures and Services in Indonesia**
- 68 Marco Linz *EBS BUSINESS SCHOOL, Germany*
Yvonne Ziegler *University of Applied Sciences, Germany*
Kathrin Lang *Fraport AG, Germany*
Business Aviation in Europe - Current State and Future Outlook
- 251 Kevin H.-J. Lin, Mark Azzam, *Technische Universität Darmstadt, Germany*
Uwe Klingauf *ECAD GmbH, Germany*
An Evaluative Comparison Of The BTS T-100 And OAG Database Through Data Mining

SESSION 5B – LOW COST CARRIERS AND AIRLINE COMPETITION I - : GALLERY 1

Chair: Christian Hofer, University of Arkansas, USA

- 307 Tae Seung Kim, Jinkook Lee *Inha University, South Korea*
**The Role of the Subsidiary Low Cost Carriers in the Competitive Local Market; the Case in
Korean Air Transport Market**
- 95 Jost Daft, Sascha Albers *University of Cologne, Germany*
A Framework for Measuring Airline's Strategic and Structural Convergence
- 284 Koichi Tanaka *University of Tokushima, Japan*
**Network Expansion Strategy Of Low Cost Carriers In Asia: A Challenge For Long-Haul
Flights**
- 263 Colin Diggines *University of South Africa, South Africa*

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Passenger perceptions of low cost and full service airlines: The South African perspective

SESSION 5C – MERGER AND ALLIANCE - : CIVIL ENG G1

Chair:

- 78 Rico Merkert, Peter S. Morrell *Cranfield University, UK*
Mergers and Acquisitions in Aviation – Management Perspectives and Econometric Evidence on the Size of Airlines
- 67 Florian M. Heinitz *FH Erfurt University of Applied Sciences, Germany*
Peter A. Meincke *DLR German Aerospace Center, Germany*
A network-based investigation of the options for reviving air cargo alliances
- 110 Jorge J. Villa, Javier Tafu *Universidad Politécnica de Madrid, Spain*
Guozhu Jia *Beijing University of Aeronautics and Astronautics, China*
Strategic Airline Alliances: Advantages For Major Airlines Being Aligned
- 105 Alberto A. Gaggero *University of Pavia, Italy*
David Bartolini *Polytechnic University of Marche, Italy*
The Determinants Of Airline Alliances
- 15 Jörg Troester *Hahn Air Lines, Germany*
The Age of Virtual Alliances The Age of Virtual Alliances

SESSION 5D – AIRPORT ECONOMICS I - : HK ALUMNI

Chair: Xiaowen Fu, Hong Kong Polytechnic University, China

- 37 Joyce M.W Low *Korea Aerospace University, South Korea*
Loon Ching Tang *National University of Singapore, Singapore*
Xue-Ming Yuan *Singapore Institute of Manufacturing Technology, Singapore*
Airport pricing and capacity decisions under imperfect competition
- 149 Frederico Morgado *Universidade do Algarve, Portugal*
Rosário Macário *Instituto Superior Técnico, Portugal*
Landing Fees in Portuguese Airports: Proposal for a Scheme based on Marginal Costs of Runways Use
- 243 Cristina Barbot *University of Porto, Portugal*
Paolo Malighetti *University of Bergamo, Italy*
Renato Redondi *University of Brescia, Italy*
Tiziana D'Alfonso *Sapienza Università di Roma, Italy*
Vertical Collusion Between Airports And Airlines: An Empirical Test For The European Case
- 238 Seyed Taha Fehri, Yashar Zeinyali Farid *Tarbiat Modares University, Iran*
Ehsan Shirazinia *Islamic Azad University, Iran*

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How Can a New Airport Compete in a Multi-Airport System: A Case Study of Tehran

- 14 Dr. Sven Maertens *German Aerospace Center (DLR), Germany*
A Europe-wide approach for the estimation of airport market power

SESSION 5E - HUMAN FACTORS I - : RONALD LU

Chair: Brett Molesworth, University of New South Wales, Australia

- 13 Pei-Chun Lin *National Cheng Kung University, Taiwan*
Measuring Ability to Adapt to the Stress Caused by Centrifuge Equipment for Taiwanese Military Aircrews
- 154 Chung-Wei Kuo *Aletheia University, Taiwan*
Rong-Chang Jou *National Taiwan University, Taiwan*
A Study of Job Stress and Turnover Tendency among Air Traffic Controllers –The Mediating Effects of Job Satisfaction and Job Performance
- 84 John R. Griffin, Christian Wilder *Embry-Riddle Aeronautical University, USA*
Measuring the Effects of Automation on Human Motor Responses
- 233 Yanjun Wang *Nanjing University of Aeronautics and Astronautics, China*
Modeling and analysis of grouping behavior in air traffic controller communication activities
- 241 Walter Nogueira Pizzo, Paulo Sérgio Cugnasca *University of São Paulo, Brazil*
Dimensioning Human Resources For Airspace Control Centers Based On Availability Assessment Simulations

SESSION 5F - AIRPORT PLANNING AND MANAGEMENT II :P FARRELL

Chair: Anne Graham, University of Westminster, UK

- 122 Kay Plötner, Philipp Wesseler, Peter Phleps *Bauhaus Luftfahrt e.V., Germany*
Identification Of Aircraft And Operational Key Parameters Affecting Airport Charges
- 187 Sze-Wei Chang *China University of Science and Technology, Taiwan*
Differences and Comparison between FAA and ICAO Obstacle Restriction Regulations
- 207 Ayse Kucuk Yilmaz *Anadolu University, Turkey*
Triant Floris *Hellenic American University, Greece*
Stakeholder Risk Management In Aviation: The Case of Airport Ground Handling
- 217 Khalil Zamani, Hamidreza Bahramian *Transportation Research Institute, Iran*
Alireza Giyahi *Pars Masir Gostar Consultant Engineers, Iran*
Requirements for Implementing Integrated Airport Management in Iran
- 59 Wai Hong Kan Tsui, Hatice O. Balli, Hamish Gow, Andrew Gilbey *Massey University, New Zealand*

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Operational efficiency of Asia Pacific airports

SESSION 5G - AIR TRANSPORT POLICY AND REGULATION II - : GONSKI

Chair: Hans-Martin Niemeier, University of Applied Sciences Bremen, Germany

- 289 Natalia Roj, Dr. Keith Mason *Cranfield University, UK*
Kostas Iatrou *Hellenic Aviation Society, Greece*
Are the “Open Skies” agreements pillars for the future of aviation? Analysis of the liberalised air transport market between the EU and USA – case study of London Heathrow
- 297 Batilda E. Moshy *Sokoine University of Agriculture, Tanzania*
Paul Isolo Mukwaya, Hannington Sengendo *Makerere University, Uganda*
Nigel Denis *University of Westminster, UK*
Air fares and pricing in the East African Region: Concerns and opportunities for Airline deregulation across the East African Community
- 320 Alan Khee-Jin Tan *National University of Singapore, Singapore*
The Air Transport Agreement Between The Asean States And China: Breaking New Ground?
- 310 Tarryn Kille, Paul Bates, Patrick Murray *Griffith University, Australia*
The Impact Of Government Policy On Regional Aviation
- 137 Sui-Ling Li *National Penghu University of Technology and Science, Taiwan*
A Fuzzy Multi-Objective Programming Of Flight Quota Allocation Between Cross-Strait Air Routes

CONCURRENT SESSION 6 (15:45 – 17:15)

SESSION 6A – MARKET OUTLOOK & FUTURE DEVELOPMENT OF AIR TRANSPORT II - : GALLERY 2

Chair: Blaise Waguespack, Embry Riddle Aeronautical University, USA

- 35 Christian Urhahn, Patrick Spieth *EBS Business School, Germany*
Measuring innovativeness of aircraft innovation portfolios
- 255 Isabel Cristina dos Santos *Taubate University, Brazil*
Antonio Henriques de Araujo Jr., Carlos Vinicius de Moraes, *Rio de Janeiro State University, Brazil*
Caroline de Lima Borba, Jose Glenio Medeiros de Barros
Economic And Financial Performance Of The Brazilian Aeronautics Industry: The Embraer Case

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- 323 Milan Janic *Delft University of Technology, Germany*
Making Airports More Sustainable: The Potential of Advanced Technologies and Operations
- 54 Hilton Notini, Gustavo Valcorba
Estimating and forecasting Rio de Janeiro/São Paulo air transport demand

SESSION 6B – LOW COST CARRIERS AND AIRLINE COMPETITION II : GALLERY 1

Chair: Keith Mason, Cranfield University, UK

- 158 Tomohiko Kawamori, Ming Hsin Lin *Osaka University of Economics, Japan*
Airline Alliances with Low Cost Carriers
- 148 Mikio Takebayashi *Kobe University, Japan*
Low Cost Carrier's Network Design Strategy: Model Analysis
- 11 Gui Lohmann *Southern Cross University, Australia*
The Airline Business Model Spectrum
- 308 Ki-Chan PARK, Jeong-Tae LEE, Tae Seung KIM *Inha University, South Korea*
The Development Strategies for the Korean Low Cost Carriers
- 232 Somchai Pathomsiri *Mahidol University, Thailand*
Econometric Analysis Of Airfare Pricing In Thai Domestic Market With The Presence Of Low Cost Carrier Services

SESSION 6C – AIRLINE OPERATION I :CIV ENG G1

Chair: Cheng-Lung Wu, University of New South Wales, Australia

- 21 Li Weigang *University of Brasilia, Brazil*
Daniel Li *Duke University, USA*
International Standard Aviation Collection Code (ISACC) and Information Management Systems
- 102 Dr. Peter J. Bruce *Swinburne University of Technology, Australia*
The importance of expertise in managing airline operational disruptions
- 31 Chi-Ruey Jeng *Shu-Te University, Taiwan*
The Relationship between Airline Service Recovery and Customer Satisfaction
- 81 Chien-Yuan Huang, Ta-Chung Wang *National Cheng-Kung University, Taiwan*
Gradient Methods for Binary Integer Programming for Problems in Aviation Industry
- 214 Varis Limlawan, Boontariga Kasemsontitum, Chawalit Jeenanunta *Thammasat University, Thailand*
Airline Crew Rostering Using Particle Swarm Optimization
- 242 Daniel Jorge Caetano, Nicolau D. Fares Gualda *Universidade de São Paulo, Brazil*

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An Integrated Model For Flight Scheduling And Fleet Assignment Based On The Ant Colony Meta-Heuristic

SESSION 6D – AIRPORT ECONOMICS II - :HK ALUMNI

Chair: Kenneth Button, George Mason University, USA

- 235 A. Mamdoohi, M. Zabihi Tari *Tarbiat Modares University, Iran*
E. Shirazinia *Islamic Azad University, Iran*
Air traffic distribution in dual-airport systems
- 113 Malighetti Paolo, Paleari Stefano, Renato Redondi *University of Bergamo, Italy*
Airports traffic performance and catchments area in Europe
- 223 Yi-Shih Chung, Wen-Chien Yeh *Kainan University, Taiwan*
Jinn-Tsai Wong *National Chiao Tung University, Taiwan*
Competition And Cooperation Between Two Neighboring Airports In Northern Taiwan
- 5 Cristina Barbot, Carlos F. Alves *Universidade do Porto, Portugal*
Does market concentration of downstream buyers squeeze upstream suppliers' market power?
- 33 Juan Luis Jiménez, Ancor Suárez *University of Las Palmas de Gran Canaria, Spain*
Management, political and institutional drivers of airport quality

SESSION 6E - HUMAN FACTORS II - : RONALD LU

Chair: Victor Ujimoto, University of Guelph, Canada

- 69 Adriana Abstein & Patrick Spieth *Aviation Management Institute, Germany*
Fostering Innovative Work Behaviour in the Aviation Industry
- 98 Pr. A. Condamines, Dr. A. Josselin-Leray, *CLLE-ERSS1 & University of Toulouse-le-Mirail, France*
S. Lopez, M. O'Donoghue, R. Salmon *ENAC, France*
Linguistic Analysis of English Phraseology and Plain Language in Air-Ground Communications
- 143 Kang-Seok, Lee, Eun-Suk, Seol *Hanseo University, South Korea*
A Study on the impact of human factors for the Student Pilot's in ATO
- 236 Ricardo Alexandre Veiga Gimenes, *Safety Analysis Group, School of Engineering, Brazil*
Jorge Rady de Almeida Junior
Human Factors Associated With UAV In A Non-Segregated Air Navigation System
- 229 I.K. Dabipi, Joseph Dodoo, J. Bryan Burrows-McElwain, *University of Maryland Eastern Shore, USA*
Chris Hartman
Influences of technology on cockpit scan: A case study of undergraduate flight students

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- 324 David Pethick, Frank Zimmermann, *Simulate! Pty Ltd., Australia*
Florian M. Heinitz *FH Erfurt University of Applied Sciences, Germany*
Using an Airline Business Simulation Environment in Undergraduate Air Transport Classes

SESSION 6F - AIRPORT PLANNING AND MANAGEMENT III - : PETER FARRELL

Chair: John Black, University of New South Wales, Australia

- 201 Robert Freestone *University of New South Wales, Australia*
Airport dealings with urban planning systems: Preliminary results from a global survey
- 28 Uttam Kumar Regmi, Nigel Halpern *Molde University College, Norway*
What's in a name? Global analysis of airport brand names and slogans
- 234 M. Safferzadeh, A. Yazdanpanah, M. Zabihi Tari *Tarbiat Modares University, Iran*
Islamic Azad University, Iran
Airport Simulation Software Comparison and Selection of Appropriate Software for IKIA
- 177 Alexandre G. de Barros *University of Calgary, Canada*
Lily Hu *University of Toronto, Canada*
Richard Tay *LaTrobe University, Australia*
Influence Of Geographic Location And Local Demand On The Attractiveness Of Airports To Transfer Traffic
- 153 Wang Lu, Liu Yu Mei, Li Hong Tao, *China Academy of Civil Aviation Science and Technology, China*
Zhu Yao Wen
Study on the optimization of public access and egress system of airports in China

SESSION 6G - AIR TRANSPORT POLICY AND REGULATION III - : GONSKI

Chair: Michael Li, Nanyang Technological University, Singapore

- 6 Yeong Heok Lee, Jae Woon Lee *Korea Aerospace University, South Korea*
Northeast Asian open skies: lessons to be learned from other single aviation markets
- 189 Araya Sakburanapech *Kasetsart University, Thailand*
Impacts of Full Liberalization of Air Cargo Service in ASEAN
- 128 Tobias Huld *University of Muenster, Germany*
International Bilaterals As Barriers To The Formation Of Efficient Airline Size By Mergers And Acquisitions
- 151 Koki Nagata *University of Maryland, USA*
An Integrated Air Transport Market for China, Japan and Korea-III
-
-

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SATURDAY, 2 JULY 2011

CONCURRENT SESSION 7 (8:30 – 10:00) -

SESSION 7A – AIRPORT PERFORMANCE I : RITCHIE THEATRE

Chair: Bijan Vasigh, Embry Riddle Aeronautical University, USA

- 44 Juan Carlos Martín, Héctor Rodríguez-Déniz, Augusto Voltes-Dorta *Universidad de Las Palmas de Gran Canaria, Spain*
The impact of the economic downturn on airports' cost efficiency
- 75 Clement Kong Wing Chow *Lingnan University, Hong Kong*
Michael Ka Yiu Fung *Chinese University of Hong Kong, Hong Kong*
Estimating the Malmquist Productivity Index of Airports in Greater China: A Parametric Output Distance Function Approach
- 292 Hun-Koo Ha *Inha University, South Korea*
Anming Zhang *University of British Columbia, Canada*
Yuichiro Yoshida *National Graduate Institute for Policy Studies, Japan*
Factors of Efficiency Performance Changes in Major Northeast Asian Airports
- 321 Nobuo Akai and Munekatsu Usami *Osaka University, Japan*
Financial Analysis of Airport Terminal Building Companies in Japan

SESSION 7B – REVENUE MANAGEMENT AND PRICING - : GALLERY 1

Chair: Ian Douglas, University of New South Wales, Australia

- 309 Michael Z.F. Li *Nanyang Technological University, Singapore*
Joint Dynamic Pricing and Inventory Control for Two Parallel Flights
- 220 Uzi Freund-Feinstein, Shlomo Bekhor *Technion Israel Institute of Technology, Israel*
Application of the Dynamic Discrete Choice Modeling Framework to the Flight Product Choice Problem
- 116 Kuancheng Huang, Yi-Ya Peng, I-Wen Wu *National Chiao Tung University, Taiwan*
A Multi-Fare Dynamic Pricing Model For The Low-Cost Carriers
- 287 Li Zou, Chunyan Yu *Embry-Riddle Aeronautical University, USA*
Martin Dresner *University of Maryland, USA*
The Application of Inventory Transshipment Modeling to Air Cargo Revenue Management
- 264 Ryan Leick *Utah Valley University, USA*
Driving Transactions One Passenger At A Time: A Transactional Passenger Choice Model

SESSION 7C – AIRLINE OPERATION II - : GALLERY 2

SATURDAY, 2 JULY 2011

Chair:

- 213 Soroj Sivapaiboon, Sirapak Likitsajjakul, Tiptidee Thongyeesun, *Thammasat University, Thailand*
Boontarika Kasemsontitum, Chawalit Jeenanunta
Airline Crew Rostering Using Ant Colony Optimization
- 96 Wagner de Paula Gomes, Nicolau D. Fares Gualda *Universidade de São Paulo, Brazil*
A Hybrid Genetic Algorithm For The Airline Crew Assignment Problem
- 194 Fardad Sarkeshiki *Tarhe Mandegare Arya Co., Iran*
Abdolreza Rezaee Arjroody *Transportation Research Institute, Iran*
Calculation Of Direct Costs Of Flight Delays
- 240 Jinn-Tsai Wong *National Chiao Tung University, Taiwan*
Shy-Chang Tsai *China University of Science and Technology, Taiwan*
Survival analysis for flight delay exploration
- 176 Rolando Antonio Corradini Neto, Carlos Muller *Instituto Tecnológico de Aeronáutica, Brazil*
Speed Schedule Optimization Of A Jet Airplane
- 80 Ching-Mei Li, Ta-Chung Wang *National Cheng-Kung University, Taiwan*
Weekly Fleet Assignment with Continuously Adjustable Flight Schedule

SESSION 7D – AVIATION INFRASTRUCTURE OWNERSHIP AND REGULATION I - : CIVIL ENG G1

Chair:

- 312 Mo Mansouri, Matthias Finger *Stevens Institute of Technology, USA*
Air Traffic Control From Two Governing Perspectives: A Comparison Between United States And European Countries
- 19 Joel Zhengyi Shon *Tainan University of Technology, Taiwan*
Airport employees' attitudes toward corporatization and commercialization: The changes of employees' rights, interests, benefits, and organization trusts
- 219 Pelin Akin *Istanbul Ataturk Airport International Terminal, Turkey*
An Optimal Privatization Structure For AENA
- 281 Vasco Reis, Rosário Macário *Universidade Técnica de Lisboa, Portugal*
State of the Art of Public Private Partnerships in Airports Construction and Development

SESSION 7E - AIR TRANSPORT DEVELOPMENTS I

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Chair: Cheng-Min Feng, National Chiao Tung University, Taiwan

- 222 Pedram Keshavarzian, Tay TR Koo *The University of New South Wales, Australia*
Iranian aviation industry: prospects for growth
- 262 Fernando Meziat *National Civil Aviation Agenc, Brazil*
Evolution Of The Structure Of Airline Routes In Brazil
- 265 Erivelton Pires Guedes *Institute of Applied Economic Research (IPEA), Brazil*
Aurélio Ferreira Braga *National Land Transport Agency (ANTT), Brazil*
Rogério Pecci Filho *National Civil Aviation Agency - Brazil (ANAC), Brazil*
Costs of delays in air transport in Brazil - 2000 to 2008
- 103 Wei Lu, Xingwu Zheng *Civil Aviation University of China, China*
Matthias Finger *EPFL - Ecole Polytechnique Fédérale Lausanne, Italy*
An Analysis of Imbalanced Traffic Flows in China-EU Air Cargo Market
- 196 Yahua Zhang *University of Southern Queensland, Australia*
What Do Chinese Passengers Expect from Domestic Airlines?

SESSION 7F - AIRPORT PLANNING AND MANAGEMENT IV

Chair:

- 104 Melanie Murphy, Alexandra Leipold *German Aerospace Center (DLR), Germany*
Land-Use Planning And Management At Airports – Opportunities And Limits Of An Instrument Within Icao’S Balanced Approach To Aircraft Noise Management
- 303 Gustavo Sobreiro dos Santos, Emmanuel Antonio *Technological Institute of Aeronautics, Brazil*
dos Santos, Rogéria de Arantes Gomes Eller
People’s Participation In Land Use And Occupation In The Vicinity Of Airports
- 301 Ünal Battal, Savaş S. Ateş *Anadolu University, Turkey*
Airport Master Planning Implementation At Small Airport: The Case Of Anadolu University Airport
- 62 Felipe Santana Lopes, Ronaldo Alves de Medeiros Junior, *Instituto Tecnológico de Aeronáutica, Brazil*
Emmanuel Antonio dos Santos
Santos Dumont Airport – SBRJ surrounding land use and occupation

SESSION 7G - AIRLINE NETWORK DEVELOPMENT I

Chair: Katsuya Hihara, University of Tokyo, Japan

- 22 Wolfgang Grimme *German Aerospace Center (DLR), Germany*

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Going the long way – an analysis of the world’s ultra long-haul non-stop air routes

- 305 Axel Budde, Guillaume Burghouwt, Jaap de Wit *University of Amsterdam, Netherlands*
The Making And Braking Of Waves - Using A Pattern Recognition Algorithm In The Analysis Of Hubbing And De-Hubbing Effects On Indirect Temporal Connectivity
- 246 Simon Herkenhoener, Andreas Wald *EBS Business School, Germany*
Future Growth in the Airline Industry – Identification of potential Hubs and important Airports
- 114 Renato Redondi *University of Brescia, Italy*
Paolo Malighetti *University of Bergamo, Italy*
The accessibility of European regions and airport network

CONCURRENT SESSION 8 (10:30 – 12:00)

SESSION 8A – AIRPORT PERFORMANCE II

RITCHIE THEATRE

Chair: Shinya Hanaoka, Tokyo Institute of Technology, Japan

- 239 Sérgio Domingues *MIT-Portugal, Portugal*
Do Low Cost Carriers influence Portuguese airports’ efficiency?
- 159 Seock-Jin Hong *Bordeaux Management School, France*
Je-Gu Lee *Korea Maritime University, South Korea*
Efficiency Analysis of Major Airports in Asia - With Emphasis on DEA and Super-efficiency Analysis
- 170 Rico Merkert, Romano Pagliari *Cranfield University, UK*
Svein Bråthen *Molde University College, Norway*
James Odeck, *The Norwegian University of Science and Technology, Norway*
The Use Of Econometric Methods For Efficiency Analysis Of Regional Airports - A Meta Analysis
- 247 Shahab Hassanpour, Majid Zabihi Tari, Yashar Zeinali Farid *Tarbiat Modares University, Iran*
The Importance Level of Effective Factors on Airport Efficiency and Level of Services
- 278 Branko Bubalo *Berlin School of Economics and Law, Germany*
Benchmarking & Forecasting Airport Airside Operations by Simulation

SESSION 8C – AIR TRAFFIC CONTROL

GALLERY 1

Chair:

- 204 Hamidreza Bahramian, Khalil Zamani *Transportation Research Institute, Iran*
Fardad Sarkeshiki *Tarhe Mandegar Aria Consultant Engineering, Iran*

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Implementation of Air Traffic Management Operational Concept in Iran

- 123 Francisco Ravier Ramirez-Fernandez *FATEC Carapicuíba, Brazil*
Magali Andreia Rossi, Jorge Rady de Almeida Junior, *University of São Paulo, Brazil*
Mario Corrêa

Using The MIPv6 Protocol For Communication With UAV, Aiming To Update Embedded Weather Forecast Models

- 26 Daniel Pisani Dias, Carlos Müller *Aeronautics Institute of Technology, Brazil*

Flight sequencing at a terminal control area based on required time of arrival at a metering fix

- 91 Nastaran Coleman *Federal Aviation Administration, USA*

Finding benefits of Reduced Minimum En Route flight Altitude (MEA) using Optimization Techniques

- 254 Dave Knorr, Xing Chen, Marc Rose, John Gulding *Federal Aviation Administration, USA*
Philippe Enaud, Holger Hegendoerfer, *EUROCONTROL, Belgium*
Tim Rees *Air Services Australia, Australia*

Estimating ATM Efficiency Pools in the Descent Phase of Flight - Potential Savings in both Time and Fuel

- 202 Terumitsu Hirata *Institute for Transport Policy Studies, Japan*
Tetsuo Yai *Tokyo Institute of Technology, Japan*
Daichi Mimura *NTT LOGISCO Inc., Japan*

Analysis Of Air Traffic Flow Management By Ground-Holding In Japan

SESSION 8D – AVIATION INFRASTRUCTURE OWNERSHIP AND REGULATION II : GALLERY 2

Chair:

- 313 Yibin Xiao *University of Electronic Science and Technology of China, China*
Xiaowen Fu *The Hong Kong Polytechnic University, Hong Kong*
Tae H. Oum *University of British Columbia, Canada*
Jia Yan *Washington State University, USA*

Airport Ownership and Capacity Choice with Real Option

- 296 Hangjun (Gavin) Yang, Anming Zhang *University of British Columbia, Canada*

Price-cap vs. Rate-of-return Regulation on Capacity and Service Quality

- 248 Ferhan Kuyucak, Bijan Vasigh *Embry-Riddle Aeronautical University, USA*

Government Failure, Market Failure And Public Interest: An Assessment Of Airport Governance Policies Through Stakeholder Perspective

- 74 Darryl Biggar *Australian Competition and Consumer Commission (ACCC), Australia*

Why Regulate Airports? A Re-Examination of the Rationale for Airport Regulation

- 231 Hans-Martin Niemeier *University of Applied Sciences, Germany*
Peter Forsyth *Monash University, Australia*

Incentive Regulation of Airports – An Economic Assessment

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SESSION 8E - AIR TRANSPORT DEVELOPMENTS II - : CIVIL ENG G1

Chair:

- 94 Phimporn Sowawattanukul, Winai Wongsurawat *Asian Institute of Technology, Thailand*
Domestic Airline Networks and Passenger Demand in Thailand
- 119 Chih-Chiang Chen, Ming-Cheng Wu *CAFA, Taiwan*
The emerging but imbalanced Cross-Strait air cargo markets: Implications and Potential Demands for direct Taiwan-China Air Services
- 139 B. Kodanda *CSIR - National Aerospace Laboratories (NAL), India*
Ashish Verma *Indian Institute of Science (IISc), India*
Estimation of Origin-Destination Air Traffic Flow from Air Transport Movement Data: An Application to Indian Domestic Airport Network System
- 55 Hilton Notini, Luciene Torres *National Civil Aviation Agency, Brazil*
Estimating and forecasting Brazilian passengers yield

SESSION 8F - AIRPORT DEMAND MANAGEMENT & AIRPORT-AIRLINE RELATION - : PETER FARRELL

Chair: Wolfgang Grimme, German Aerospace Center, Germany

- 225 Rodrigo Pintus Gonçalves da Costa, Jônatas Barros Falcão, *Aeronautics Institute of Technology, Brazil*
Adilson Marques da Cunha, Luiz Alberto Vieira Dias
Airport Resources Allocation Using A-Cdm For The Brazilian Environment
- 108 Peter Berster, Marc Gelhausen, Dieter *German Aerospace Center (DLR), Germany*
Wilken
Do Airport Capacity Constraints Have A Serious Impact On The Future Development Of Global Air Traffic?
- 144 Marcia Estrada Braga, Elton Fernandes, *COPPE/UFRJ, Brazil*
Aline Lys Liborio da Silva, Ivy Costa Torres Machado
Analysis Of Air Transportation Demand And Airport Capacities In The 2014 Soccer World Cup In Brazil
- 291 Alessandro Avenali *Sapienza Università di Roma, Italy*
Tiziana D'Alfonso *University of Bergamo, Italy*
An Auction-Based Mechanism For Airport Time Slot Allocation
- 180 Katsuya Hihara *University of Tokyo, Japan*
Airport-Airline Vertical Relationship with Risk Sharing Contract under Asymmetric Information Structure

SESSION 8G - AIRLINE NETWORK DEVELOPMENT II

GONSKI

Chair: Paolo Malighetti, University of Bergamo, Italy

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- 269 Chuntao Wu, Ji Han, Yoshitsugu Hayashi *Nagoya University, Japan*
The impact of route network expansion on airport attractiveness: a case study of Chubu International Airport in Japan
- 182 Fabiene Cristina de Carvalho da Costa, Bruno Luis de Carvalho da Costa *Cidade Universitária, Brazil*
Rio de Janeiro Airports: Domestic Market Limitation
- 198 Sung-Yeoul Oh *Korea Transport Institute, South Korea*
Yonghwa Park *Inha University, South Korea*
Analyzing the Airport Network Centrality of Asia Pacific Region
- 299 Jaap de Wit *University of Amsterdam, Netherlands*
Running A Business Of 90 A380s: What Network Would You Choose?