“A Tale of Two Industries" - Building the Bridge Between Business Aviation and Academia

Dr Ivan Sikora, PhD MRAeS
Programme Director ASM MSc
What is in the air transport industry that it is making so much the subject of global attention?
BUSINESS AVIATION - GLOBAL IN ITS OPERATIONS AND ITS ESSENCE

20-year forecast: strong long-term growth

<table>
<thead>
<tr>
<th>2010 to 2029</th>
</tr>
</thead>
<tbody>
<tr>
<td>World economy (GDP)</td>
</tr>
<tr>
<td>Airline traffic (RPK)</td>
</tr>
<tr>
<td>Cargo traffic (RTK)</td>
</tr>
</tbody>
</table>

Chamsou Andjorin, Aviation Safety in Africa, ACI, Marrakech, 31 March 2011

BUSINESS AVIATION – SHAPING FUTURE

Dr Sikora – A Tale of Two Industries
BUSINESS AVIATION – A GREAT PLACE TO WORK IN BECAUSE OF DIFFERENT ASPECTS

1. Fly, navigate and communicate: In this order and with appropriate tasksharing
2. Use the appropriate level of automation at all times
3. Understand the FMA at all times
4. Take action if things do not go as expected

Dr Sikora – A Tale of Two Industries
"To invent an airplane is nothing. To build one is something. To fly is everything. — Otto Lilienthal"
DNA OF UNIVERSITY EDUCATION

Teleporting of Knowledge

License to Think
25/02/2015

Dr Sikora – A Tale of Two Industries

Tool Box/ Safety Net
Communities of Practice (CoP)

“N o man is an island”

- Common understanding practices, values, behaviours,
- Joining in common activities,
- Learning through mutual engagement in activities. (Smith 2003)

- CoP have lifecycles: they emerge, they grow, and they have life spans, Cambridge et al. (2005)
- The art and practice of the learning organization, Senge (1990)

- Video conferencing of students and academics in compressor projects,
- Civil engineering students visiting construction sites,
- Lawyers visiting and observing court proceedings.
- The Professional Pilots Rumour Network (PPRuNe).
WITH APPROPRIATE KNOWLEDGE AND APPROACH SKY IS THE ONLY LIMIT!
EDUCATION AND COOPERATION
A CHANCE TO MOVE TO THE NEXT LEVEL

Pilot & Technician Outlook
New pilots by region 2012–2031

<table>
<thead>
<tr>
<th>Region</th>
<th>Pilots</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asia Pacific</td>
<td>185,600</td>
</tr>
<tr>
<td>Europe</td>
<td>100,900</td>
</tr>
<tr>
<td>North America</td>
<td>69,000</td>
</tr>
<tr>
<td>Latin America</td>
<td>42,000</td>
</tr>
<tr>
<td>Middle East</td>
<td>36,100</td>
</tr>
<tr>
<td>CIS</td>
<td>11,800</td>
</tr>
<tr>
<td>Africa</td>
<td>14,500</td>
</tr>
<tr>
<td>Total</td>
<td>460,000</td>
</tr>
</tbody>
</table>

Current Market Outlook
2012–2031

[06 December 2012]
WHEREAS We did, on the sixth day of April 1966, grant a Charter constituting and founding a University within Greater London by the name of “The City University”:

AND WHEREAS the Charter incorporating the City University provided for the constitution and government of the University and the management of its affairs:

AND WHEREAS Articles 1 and 2 of the Charter provided as follows:—

“1. There shall be and there is hereby constituted and founded in Greater London a University with the name and style of “The City University” (hereinafter called “the University”).
Introduction

• City University London – a cosmopolitan University in the heart of London

• Founded in 1894 with University charter issued 1966 by Her Majesty the Queen

• Its Chancellor is the Lord Mayor of London

• The university’s degree ceremonies are held at the historic Guildhall
City’s Alumni

- Mahatma Gandhi
- Jawaharlal Nehru
- Margaret Thatcher
- Tony Blair
City University London - Today

• The University’s motto – ‘to serve mankind’

• 16500 students (13000 full-time equivalents) in 5 Schools (17500 FTEs including validated students)

• 42% students from over 150 countries (majority from outside EU – 27%); 28% staff from nearly 50 countries outside the UK

• 40% students are postgraduates – one of UK’s foremost providers of postgraduate education

• City plays an active role in the business and professional life of London
City Students’ and Academics Say…

City is popular…
• ...good employability,
• ...high proportion of international students and staff.

Student respect their educators…
• ...committed to our students,
• ...feel valued and feel abilities well-used.
Academic Structure

5 schools representing academic areas

- School of Arts Social Sciences
- Cass Business School
- **School Mathematics, Computer Science and Engineering**
- School of Health Sciences
- The City Law School
Information on City Programmes and Research (e.g. SMCSE)

Supportive environment for research and development:
CHECK [link](http://www.city.ac.uk/research)

Current Research Activities in SMCSE:
- Computer Aided Modelling and Design
  CHECK [link](http://www.city.ac.uk/people/academics/sanowar-khan)

- Aeronautical Engineering - Wind Tunnel Facilities (one of 7 in UK)
  CHECK [link](http://www.city.ac.uk/people/academics/christopher-atkin)

- Automotive and Mechanical
  CHECK [link](http://www.city.ac.uk/people/academics/jamshid-nouri)
"Excellence - the result of continuously trying to be better."
City University London
Welcomes You

25/02/2015
Dr Sikora – A Tale of Two Industries
Selected References


Thank You!

Your Turn 😊

Ivan.Sikora.1@city.ac.uk