FUTURE OF COMMERCIAL SPACE

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FUTURE OF COMMERCIAL SPACE

TECHNOLOGY
ECONOMICS
POLICY
EDUCATION
Critical Success Factors from the Perspective of Education

- An Educated Workforce
- Public Awareness and Support
- Manpower Recruitment & Training
- International Competition/ Collaboration
The 2nd International Conference on Space Information Technology
ICSIT, November 10-11, 2007, HUST, Wuhan, China
Sponsors: Chinese Academy of Space Technology
The 2nd Academy of China Aerospace Science & Industry Corporation
Aerospace & Defense Industry

- Baby Boomers Born and Educated After WWI are Retiring (Aging Workforce)
- Difficulty in Attracting Engineers
  - 70,000 BS Degrees Awarded in Engineering (2005)
    - Including 40,000 MS/PhDs (US Dept Edu)
    - Shortfall of at least 30,000 engineers (AW&ST, 2006)
- India is turning out 350,000 Engineers Annually
- China is Producing 600,000
Some Recommended Solutions

National Workshop on Space Education
March 2003, GWU

White Paper on Space Education
General Editor Introduction

Issue No. 1, Spring 2002


This issue features a Database of Academic Institutions, research centers and professional associations around the world that do research and teach content and skills relating to satellite and space communication. This is a first-of-its-kind database in that specific degree programs, individual courses and program heads as well as instructional faculty are identified. If you and your program are not listed, send the relevant information to the editor. We will add it.

This issue presents Model Curricula. The varied approaches being taken in the education and training of next-generation professionals in satellite and space communication are highlighted. Examples are drawn from Associate, Baccalaureate, Masters and Ph.D. Programs in a range of academic disciplines, as well as short courses and continuing education programs. If you have a model course or program of study to recommend, write it up for the editor. We will include it.

This issue hosts Critical Perspectives. Feature articles, and thoughtful editorial commentary are presented on the topic of Education and Training from both the scholarly and the professional side. These perspectives are intended to frame the debate and set the agenda for discussion about what's right and what's wrong with current approaches to education and training in space/ satellite disciplines. Note the March 27, 2003 National Workshop on Space Education and White Paper. If you have a perspective you wish to share, please do so by sending an email to the editor. The advantage of being online is that the content can be revised and updated as often as needed. Our goal is to make our Journal as inclusive and as global as possible. Join us.

Please note that this Journal is not a static publication, and its contents are not forever fixed. Our Database does not include all who should be included; our Model Curricula do not reflect the full diversity of programs and courses offered; our Critical Perspectives do not reflect the full diversity of views that exist. As a dynamic, updatable online resource, the Journal invites you to be a contributor.
Society of Satellite Professionals International

- SSPI and the Universities Space Research Association
- SSPI Academic Council
  - Scholarships and Internships
  - Academic Database
Educational Programs

One of SSPI’s most important missions is promoting the development of — and access to — high-quality education in the satellite field. While serving today’s satellite professional is vital, the future health of the industry depends upon our ability to develop the satellite professionals of tomorrow.

SSPI Initiatives in Education

Satellite Professional’s Continuing Education Program (SPCE). SSPI offers the working satellite professional a set of high-value continuing education courses on the critical aspects of the industry, from operational and business fundamentals to satellite services for key sectors, and from satellite manufacturing and launch to technology and business topics. Available on DVD, each computer-based course in the SPCE program provides 4-6 hours of lectures and coursework that makes it simple for professionals, working at their own pace, to acquire new skills and understanding.

Scholarships. We provide annual scholarships to deserving high school and university graduates to enable them to pursue satellite-related study.

Find a Satellite and Space Program. We offer a free searchable online directory of undergraduate, graduate and other educational programs devoted to satellites and space, covering institutions in the Americas, Europe and Asia. Search by location to find programs near you.

Curriculum and Content. We work with leading educational institutions to help them develop post-secondary and continuing education programs in a wide variety of satellite-related fields, and to help interested students locate programs that meet their needs. SSPI also collaborates with leading institutions in producing conferences and workshops that bring together thought leaders in satellite and space applications.

Online Journal of Space Communication. We publish an online, peer-reviewed scholarly journal that focuses on technical, historical, cultural and business issues, and provides the world’s first online academic forum devoted exclusively to satellite and space communications.
What is Your Assessment?