



Report on Activities of UNISEC India

(For the Period: September-October 2018)

Preamble:

*During the preparation (August 2018) for the 1st International Seminar on Students' Satellites to be held along with 6th Indian Technology Congress at NIMHANS Convention Centre at Bangalore on 5-6 September 2018, **Ms. Rei Kawashima**, Secretary General, UNISEC Global, Japan has been in touch with the Organizing Committee and introduced the Single Point of Contact for India (SPOC), **Dr. G. P. Ganapathy** who have initiated the process of establishment of **UNISEC India Chapter**.*

Major Events:

- a) UNISEC Global has actively participated in the 1st International Seminar on Students' Satellites as one of the Invited Agency, represented by SPOC, **Dr. G. P. Ganapathy** during the **Inaugural Session** and highlighted the various activities of UNISEC Global and other Satellites Projects supported by UNISEC.
- b) **Ms. Rei Kawashima** has sent her recorded Video Presentation which has been screened during the event. The active support and services of UNISEC has been recognized during the event and logo of UNISEC has been displayed in all print materials and event display backdrops etc.
- c) UNISEC has supported the publication of "**Compendium of Students, Satellites**" which has been published by Indian Technology Congress Association (ITCA) in association with World Federation of Engineering Organisations (WFEO) and BRICS Federation of Engineering Organisations (BRICS FEO). The Compendium has been released by **Honorable Chief Minister of Karnataka State**, India, **Mr. H. D. Kumaraswamy** during the Inaugural Session of 6th Indian Technology Congress held on 5 September 2018 at Bangalore, India.
- d) **Competition for Designing Innovative Payload for Students' Satellites** has been announced.
- e) During the two days of Seminar the initiative for establishing "**UNISEC India Chapter**" has been completed with the support of the President, ITCA, **Dr. L. V. Muralikrishna Reddy** and he has provided necessary support to house the Secretariat at his office.
- f) **UNISEC India Chapter** has been formally established on **18th October 2018** and communicated by **Ms. Rei Kawashima**, Secretary General, UNISEC Global, Japan.
- g) The following Local Chapters/Institutional Chapters have been Established:
 1. *New Horizon College of Engineering, Visvesvaraya Technical University, Bangalore, Karnataka*
 2. *Bangalore University, Bangalore, Karnataka*
 3. *REVA University, Bangalore, Karnataka*
 4. *VIT University, Vellore, Tamil Nadu*
 5. *SRM University, Chennai, Tamil Nadu*
 6. *Dr.MGR University, Chennai, Tamil Nadu*
 7. *Saveetha Engineering College, Saveetha University, Chennai, Tamil Nadu*
 8. *Karpagam University, Coimbatore, Tamil Nadu*
 9. *Kalasalingam University, Krishnankoil, Tamil Nadu*
 10. *Thiagarajar College of Engineering, Madurai, Anna University, Tamil Nadu*
 11. *S. V. National Institute of Technology, Surat, Gujarat*

12. SRKR Engineering College, Bhimavaram, JN Technical University, Kakinada, Andhra Pradesh
13. Andhra University, Visakhapatnam, Andhra Pradesh
14. Indian Institute of Technology-Kanpur, Uttar Pradesh

(The Core Committee is in the process of evolving suitable federal arrangements considering the largest number of Universities/Engineering Educational Institutions (EELs) in India. According to the HRD Ministry, India has 6,214 engineering and technology institutions which are enrolling 2.9 million students. Around 1.5 million engineers are being graduated every year in India from 900 Degree Awarding Universities/Institutions)

- h) **UNISEC India** has been actively involved in the process of Organizing **2nd International Programme on Students' Satellite: Mission 2022** (Link to <http://itca.org.in/satellite>). Universities/Institutions associated with UNISEC India has been given priority in participation during the event.
- i) **Major Initiatives of UNISEC India: Nano Satellite for Class Room Teaching at University/EELs**
Design and Development of 1U & 2U Functional Engineering Model (Timeline: 9-12 Months)
Design and Development of "Single Card Satellite-Bus (SiCS-B)": 10 cm x10 cm (Timeline: 18 Months)
- j) **Contact**

UNISEC India (Key Executives/Core Team)

Mentor: Padmashri Prof. R. M. Vasagam (Vasagam@gmail.com)

President: Dr. L. M. Muralikrishna Reddy (mlingireddy@yahoo.com)

Secretary General: Dr. K. Gopalakrishnan (profgoki@yahoo.com)

SPOC: Dr. G. P. Ganapathy (seismogans@yahoo.com)

Students Representative: Mr. Nikhil Riyaz (nikhilryz@gmail.com)

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L to R: Dr.K.Gopalakrishnan (Secretary General, UNISEC India), Padmashri Prof.R.M.Vasagam (Mentor, UNISEC India), Dr.W.P.Krishna (Founder Member, UNISEC India), Hon'ble CM of Karnataka, Mr.H.D.Kumaraswamy, Dr.L.V.Muralikrishna Reddy (Founder President, UNISEC India), Dr.Sanjay Sanchetti (Founder Member, UNISEC India) and Mr. P.K.Thiagarajan.





Dr. G.P. Ganapathy, (SPOC, UNISEC Global and Founder Member, UNISEC India)



Video Presentation of Ms. Rei Kawashima, (Secretary General, UNISEC Global)







1st International Seminar on Students' Satellites (For More Information and Photo Gallery, Visit to <https://drive.google.com/drive/folders/1PISISWwoPEhXjLxLUikPGtdU7B3oBDMR>)

INAUGURAL SESSION OF
1st International Seminar on Students' Satellites
during
6th Indian Technology Congress 2018
Technology First: Make India Innovate, Excel Globally and Prosper

Wednesday, 05 September 2018

14:00 – 15:30 Hrs

Inauguration and address by Chief Guest

Dr B N Suresh

Padma Bhushan Awardee

Chancellor, Indian Institute of Space Science and Technology (Deemed University)

Former Director, Vikram Sarabhai Space Centre(VSSC)

Vikram Sarabhai Distinguished Professor, ISRO

Keynote Address by

Student Participation in Space Exploration

Shri M S Jayachandran

Scientist/Engineer-G, Group Director -DTG Group SIS / IISU

Associate Programme Director, VSSC, ISRO

**University Space Engineering Consortium (UNISEC) - Global Activities
and Students Satellite Projects**

Dr G P Ganapathy

Professor & Director, Vellore Institute of Technology (Deemed University)

University Space Engineering Consortium (UNISEC)- Single Point of Contact for India

Prof B Dattaguru

Padma Shri Awardee

Former Chairman, Department of Aerospace Engineering, Indian Institute of Science

Presided the Inaugural Session

Wednesday, 05 September 2018

16:00 – 17:30 Hrs

Chair

Dr K R Venugopal

Vice Chancellor, Bangalore University

Speaker

Theme

Dr Shaun Whitehead (VIDEO)

Creationeering/Scoutek Ltd, UK

ThumbSat - the Tiny Satellite that will unlock space for Everyone (*VIDEO Presentation*)

Shri Sudip Kar

Co-Founder, D'Vine Research Labs

Quest of 'Space' Based Solutions

Er. Bharatha Raja, Senior Engineer-Satellite Systems, Datta Patterns (I) P Ltd

Small Students Satellites: Role of Industries

Dr Sharan Asundi (VIDEO)

Assistant Professor, Department of Aerospace Science Engineering at Tuskegee University and Visiting Researcher at NASA Goddard Space Flight Center, USA

Pico/Nano/Micro-Satellite (PNMSat) Program: An Effort to Establish Space Systems Engineering Research and Education Paradigm for Aspiring Engineers (*VIDEO Presentation*)

Ms Rei Kawashima (<i>VIDEO</i>) Secretary General, UNISEC Global (University Space Engineering Consortiums), Japan	UNISEC-Indo-Japan Possible Collaborative Initiatives and Prospects for Small Satellites (<i>VIDEO Presentation</i>)
Thursday, 06 September 2018	09:30 to 11:00 Hrs
Chair and Address Dr Y S Rajan <i>Padma Shri Awardee</i> Honorary Distinguished Professor, Indian Space Research Organization	
Speaker	
Dr Mylswamy Annadurai <i>Padma Shri Awardee</i> Former Director, ISRO Satellite Centre Former Project Director, <i>Chandrayan</i> (Moon Mission) and Former Programme Director, <i>Mangalyan</i> (Mars Orbiter Mission)-MOM	
Dr Meir Ariel Director The Herzliya Science Centre, ISRAEL	
Shri Arun Venkatesan Managing Director VSTP Ltd/Sapienza Space Systems and Space Surveillance Laboratory, Italy	
Way-Forward and Concluding Session	
Thursday, 06 September 2018	11:30 to 13:00 Hrs
HALL B NIMHANS Convention Centre, Bengaluru	
Dr G P Ganapathy Professor & Director, Vellore Institute of Technology (Deemed University) University Space Engineering Consortium (UNISEC)- Single Point of Contact for India	
Dr J Ramkumar Professor, IIT Kanpur	
Dr Wooday P Krishna National President, Indian Institution of Production Engineers	
Dr Meir Ariel Director, The Herzliya Science Centre, Director, The Centre for NanoSatellites, Tel Aviv University, Israel	
Dr Enti Ranga Reddy Legend Technologies, Bangalore	
Shri Sudip Kar Co-Founder, D'Vine Research Labs, Bangalore	
Dr V Dillibabu Scientist, Gas Turbine Research Establishment, DRDO and Founder, Engineers Without Borders-Bangalore	
Dr K Gopalakrishnan Convener, Students Satellite Programme, ITCA, Chairman, R&D, IEI & Dean (R&D), New Horizon College of Engineering	