

सैक वार्षिक प्रायोजित अनुसंधान समीक्षा की झलकियाँ

सैक-असर 2022

Highlights of SAC Annual Sponsored reseArch Review

(SAC-ASAR/ सैक-असर) 2022

- ❖ सैक में 9 से 22 नवंबर, 2022 के दौरान हाइब्रिड मोड में सैक वार्षिक प्रायोजित अनुसंधान समीक्षा (सैक-असर) 2022 का आयोजन किया गया।
SAC Annual Sponsored reseArch Review (SAC-ASAR/ सैक-असर) 2022 was organised in hybrid mode during 9th to 22nd November, 2022 at SAC.
- ❖ 9 नवंबर, 2022 को उद्घाटन सत्र के दौरान श्री एन.एम.देसाई, निदेशक सैक ने 'सैक के अनुसंधान क्षेत्र' पर आमंत्रित व्याख्यान दिया।
Shri N.M. Desai, Director SAC delivered an invited talk on 'Research Areas of SAC' during the inaugural session on 9th November, 2022.
- ❖ डॉ.पारुल पटेल, समूह निदेशक आरटीसीजी ने स्वागत उद्बोधन दिया। डॉ. आभा छाबरा, रिस्पांड समन्वयक, प्रधान आरआरएमडी ने सैक में प्रायोजित अनुसंधान पर प्रस्तुति दी। डॉ. एन. सुधीर कुमार, निदेशक सीबीपीओ, इसरो-मुख्यालय ने मुख्य अभिभाषण दिया। श्रीमती अंकिता पटेल, वैज्ञानिक अधिकारी आरआरएमडी द्वारा धन्यवाद ज्ञापन किया गया।
Dr. Parul Patel, Group Director RTCG delivered the Welcome address. Dr. Abha Chhabra, RESPOND Coordinator, Head RRMD made a presentation on 'Sponsored Research at SAC'. Dr. N. Sudheer Kumar, Director CBPO, ISRO-HQ delivered the Keynote address. Smt. Ankita Patel, Scientific Officer RRMD proposed the formal vote of thanks.
- ❖ सैक में सैक वार्षिक प्रायोजित अनुसंधान समीक्षा (सैक-असर) 2022 के अंतर्गत तकनीकी क्षेत्रों पर 12 विषयक सत्र आयोजित किए गए। प्रमुख अन्वेषक/ सह-पीआई/ छात्र/ सैक फोकल व्यक्ति/ सह-पीआई/ मॉडरेटर/सैक समीक्षा समिति सदस्य/सीबीपीओ इसरो मुख्यालय अधिकारी/एसटीसी/आरएसी-एस/एस-टीआईसी शिक्षाविद् संयोजक तथा समन्वयक सहित लगभग 780 प्रतिभागियों ने सक्रिय रूप से भाग लिया।
SAC Annual Sponsored reseArch Review (SAC-ASAR/ सैक-असर) 2022 was organised under 12 thematic sessions based on technical areas at SAC. Around 780 participants including Principal Investigators/Co-PIs/students/SAC Focal persons/Co-PIs/mentors/SAC Review Committee members/CBPO ISRO HQ officials/ STCs/RAC-S/S-TICs Academia convenors & coordinators actively participated.
- ❖ सैक के एसएमसी, जेपीसी, जेपीएमसी, आरआरसी सदस्यों द्वारा कुल 188 सैक प्रायोजित अनुसंधान परियोजनाओं की समीक्षा की गई। ऑनलाइन मोड में प्रमुख अन्वेषकों द्वारा प्रस्तुतीकरण दिया गया। सैक फोकल व्यक्ति/सह-पीआई द्वारा नई परियोजना के प्रस्ताविक लिंक, जारी/पूर्ण परियोजनाओं की अंतिम सुपुर्दगी के प्रौद्योगिकी तैयारी स्तर और उपयोगिता के बारे में बताया गया।

A total of **188** SAC Sponsored Research projects were reviewed by SMC, JPC, JPMC, RRC members of SAC. Principal investigators made the presentations in online mode. SAC Focal persons/Co-PIs in-person informed about proposed linkage of new projects, usage and Technology Readiness Level of final deliverables of ongoing/in-completion projects.

- ❖ असर 2022 में देशभर के अकादमी/अनुसंधान संस्थान, इसरो अंतरिक्ष प्रौद्योगिकी सेल/ अंतरिक्ष के क्षेत्रीय अकादमी केंद्र/अंतरिक्ष प्रौद्योगिकी उद्भव केंद्र से 67 परियोजना टीमों और सैक तथा अन्य इसरो केंद्रों एवं इसरो मुख्यालय से वैज्ञानिक/अभियंताओं ने भाग लिया।

Project teams from 67 academic/research institutions, ISRO Space Technology Cells/Regional Academic Centres of Space/Space Technology Incubation Centres across the country and Scientists/Engineers from SAC and other ISRO centres and ISRO HQ participated in ASAR 2022.

- ❖ सैक में 22 नवंबर, 2022 को सैक-असर 2022 के समापन सत्र का आयोजन किया गया जिसमें प्रत्येक सत्राध्यक्ष/ समीक्षा समिति ने प्रत्येक तकनीकी सत्र के बारे में संक्षिप्त विवरण दिया। सीबीपीओ, इसरो मुख्यालय के अधिकारियों, अकादमी संयोजकों और समन्वयकों ने अपने सुझाव/टिप्पणी दीं।

The Valedictory session of SAC-ASAR/ सैक-असर 2022 was organised on 22 November, 2022 at SAC. Each session chair/ review committee member briefed about the highlights of each technical session. CBPO, ISRO HQ officials, Academia convenors & coordinators shared their observations/comments.

- ❖ पद्मश्री, श्री ए.एस किरण कुमार, सदस्य अंतरिक्ष आयोग, भारत सरकार और पूर्व इसरो अध्यक्ष ने समापन कार्यक्रम के दौरान सभी प्रतिभागियों को संबोधित किया।

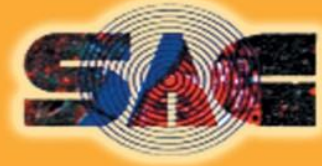
Padmashri, **Shri A S Kiran Kumar**, Member Space Commission, Govt. of India and Former Chairman ISRO delivered the Valedictory address to all participants.

- ❖ प्रत्येक सत्र की स्थिति रिपोर्ट तैयार की गई और संबंधित सत्राध्यक्ष तथा सैक फोकल व्यक्ति को परिचालित की गई।

Status Report of each session were prepared and circulated to concerned Session Chairs and SAC Focal Persons.

- ❖ सैक-असर 2022 की निर्देशिका का विमोचन किया गया और सभी प्रतिभागियों को सॉफ्ट कॉपी परिचालित की गई। Directory of (SAC-ASAR/ सैक-असर) 2022 ASAR 2022 released and softcopy circulated to all participants.

उद्घाटन सत्र: 9 नवंबर, 2022



सैक वार्षिक प्रायोजित अनुसंधान समीक्षा
SAC Annual Sponsored reseArch Review

(सैक-असर / SAC-ASAR)

Inaugural Session

9 November, 2022

अंतरिक्ष उपयोग केंद्र (अं उ कें), अहमदाबाद
Space Applications Centre (SAC), Ahmedabad



सैक वार्षिक प्रायोजित अनुसंधान समीक्षा **SAC Annual Sponsored reseArch Review** (सैक-असर /SAC-ASAR)

9 - 22 नवंबर, 2022

अंतरिक्ष उपयोग केंद्र (अं उ कें), अहमदाबाद Space Applications Centre (SAC), Ahmedabad

उद्घाटन सत्र

09 नवंबर, 2022 (बुधवार)

(समय: 10:00 – 11:30 बजे.)

10:00 - 10:05	स्वागत उद्बोधन	: डॉ. पारूल पटेल, समूह निदेशक आरटीसीजी, सैक
10:05 - 10:20	सैक में प्रायोजित अनुसंधान	: डॉ. आभा छाबरा, रिस्पॉंड समन्वयक, सैक
10:20 - 10:30	मुख्य भाषण	: डॉ. सुधीर कुमार, निदेशक, सीबीपीओ, इसरो मुख्यालय
10:30- 11:30	अध्यक्षीय संबोधन तथा 'सैक के अनुसंधान क्षेत्र' पर आमंत्रित भाषण	: श्री निलेश एम देसाई, निदेशक, सैक
11:30	धन्यवाद ज्ञापन	: श्रीमती अंकिता पटेल, वैज्ञानिक अधिकारी आरआरएमडी, सैक वेब ग्रुप फोटो

रिस्पॉंड एवं अनुसंधान प्रबंधन प्रभाग
RESPOND and Research Management Division
अनुसंधान, आऊटरीच एवं प्रशिक्षण समन्वय समूह
Research, Outreach and Training Coordination Group



सैक वार्षिक प्रायोजित अनुसंधान समीक्षा SAC Annual Sponsored reseArch Review (सैक-असर /SAC-ASAR)



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अंतरिक्ष उपयोग केंद्र (अं उ कें), अहमदाबाद Space Applications Centre (SAC), Ahmedabad

डॉ. पारूल पटेल, समूह निदेशक आरटीसीजी, सैक द्वारा स्वागत उद्बोधन





सैक वार्षिक प्रायोजित अनुसंधान समीक्षा SAC Annual Sponsored reseArch Review (सैक-असर / SAC-ASAR)

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डॉ. आभा छाबरा, रिस्पांड समन्वयक, सैक द्वारा सैक में प्रायोजित अनुसंधान





SPONSORED RESEARCH @ SAC

- RESPOND / RESPOND Basket
- Space Technology Cells (STC)
- Regional Academic Centres for Space (RAC-S)
- Space Technology Incubation Centres (S-TIC)
- Centre for Nanoscience and Engineering (CeNSE), IISc Bangalore
- Advanced Space Research Group, Indian Institute of Space Science and Technology (IIST), Thiruvananthapuram
- MoE : Uchchatar Avishkar Yojna (UAY)











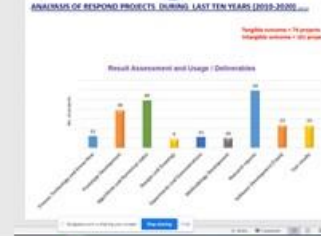
सैक वार्षिक प्रायोजित अनुसंधान समीक्षा **SAC Annual Sponsored reseArch Review** (सैक-असर /SAC-ASAR)

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डॉ. सुधीर कुमार- निदेशक सीबीपीओ, इसरो मुख्या. द्वारा मुख्य उद्बोधन



Requirements for ONLINE Submission in "i-grasp" portal



Read the details about submitting proposals/format (sponsored research at www.isro.gov.in) etc

1st step is registration of College

NGO Darpan ID & PAN of the institution

Savings bank details of the institute (PFMS)

Detailed Bio-data of the PI and CO PIs (.pdf)

In RESPOND Basket -selection of projects

Scanned copy of the Declaration Form (form C)

Online submission with complete details





सैक वार्षिक प्रायोजित अनुसंधान समीक्षा SAC Annual Sponsored reseArch Review (सैक-असर / SAC-ASAR)

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अंतरिक्ष उपयोग केंद्र (अं उ कें), अहमदाबाद Space Applications Centre (SAC), Ahmedabad



श्री एन एम देसाई, निदेशक, सैक द्वारा अध्यक्षीय उद्बोधन और 'सैक के अनुसंधान क्षेत्र' पर आमंत्रित भाषण



अंतरिक्ष उपयोग केंद्र - अहमदाबाद
SPACE APPLICATIONS CENTRE, AHMEDABAD
Promoting Space Technology for Societal Benefits

RESEARCH AREAS OF SAC
सैक के अनुसंधान क्षेत्र



सैक - वार्षिक प्रायोजित अनुसंधान समीक्षा - 2022
SAC-Annual Sponsored reseArch Review (SAC-ASAR) - 2022
9-22 November, 2022

Nilesh M. Desai
Director, Distinguished Scientist
Space Applications Centre (SAC),
Indian Space Research Organisation (ISRO),
Ahmedabad 380015, Gujarat, INDIA
Tel.: 91-79-26913445 (D) / 26913444 / 26915000 Ext. 3444 / 3445, Fax: (+91-79-26915843)
Email: nmodesai@sac.isro.gov.in; nmodesai44@gmail.com; nmodesai44@ yahoo.com

TOPICS IN THIS PRESENTATION

- Space Applications Centre, SAC & ISRO
- Genesis of Space Applications
- Opportunities for Research
- SatCom Applications & Assoc. Technologies
- SatNav (NavIC) Applications & Associated Technologies
- Remote Sensing, Meteorology & Geomatics
- Payload Electronics Hardware
- Software and Data Products
- New /Advanced Frontier Areas
- Way Forward & Conclusions

8 Nov. 2022





सैक वार्षिक प्रायोजित अनुसंधान समीक्षा SAC Annual Sponsored reseArch Review (सैक-असर /SAC-ASAR)

9 - 22 नवंबर, 2022

अंतरिक्ष उपयोग केंद्र (अं उ कें), अहमदाबाद Space Applications Centre (SAC), Ahmedabad



श्रीमती अंकिता पटेल, वैज्ञानिक अधिकारी आरआरएमडी, सैक द्वारा धन्यवाद ज्ञापन



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सैक वार्षिक प्रायोजित अनुसंधान समीक्षा SAC Annual Sponsored reseArch Review (सैक-असर /SAC-ASAR)



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अंतरिक्ष उपयोग केंद्र (अं उ कें), अहमदाबाद Space Applications Centre (SAC), Ahmedabad

वेब समूह फोटो



प्रथम दिन – एचएसटीए – नवंबर 09, 2022 (बुधवार)

सत्र-01-ए-बी-बी समानव अंतरिक्ष उड़ान तथा उन्नत प्रौद्योगिकी

अध्यक्ष: श्री डी के सिंह, उप.नि. एचएसटीए

क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
1.	STC0232	Dr. Shailendra K Varshney	IIT Kharagpur	Establishment of Quantum Communication Link for Space Application	Shri Adarsh Jain

2.	OGP222	Dr. J. Manikandan	PES University, Bangalore	Study, design and development of electronic nose for fire detection system	Smt. Payal Sharma & Shri Akash Gupta
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3.	OGP225	Dr. Arup Lal Chakraborty	IIT Gandhinagar	Ultra-high sensitivity tunable laser-based spectroscopic gas selection system for the Human Spaceflight Programme	Smt. Payal Sharma & Smt. Shikha Tomar
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क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
4.	OGP180	Dr. Sanjeev Kumar Raghuwanshi	Indian Institute of Technology (ISM), Dhanbad	A Novel Mach zehnder Modulator based integrated Photonic highly Steerable Beam-forming system for Broadband Satellite Communication Link	Shri R K Bahl (Superannuated)

5.	OGP228	Dr. Subhashish Banerjee	IIT Jodhpur	To study potential protocols for satellite-based secure quantum communication under ambient atmospheric conditions	Shri Adarsh Jain & Shri Abhishek Khanna
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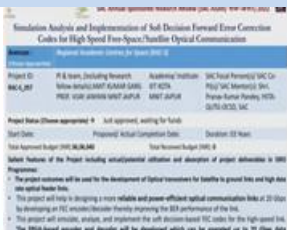
6.	OGP200	Prof. Arunava Goswami	Indian Statistical Institute (ISI), Kolkata	Delaying programmed cell death of beneficial gut bacteria in microgravity using oxide and complex nanoparticles	Dr. Abhijit Chatterjee, Dr. Maulesh N. Gadani & Smt. Payal Sharma
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क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैंक फोकल व्यक्ति
7.	STC0387	Prof. Abha Misra	IISc Bangalore	Graphene van der Waals heterostructure based field effect transistor for gas emission monitoring	Shri Anurag Verma, Smt Payal Sharma, Smt. Shikha Tomar



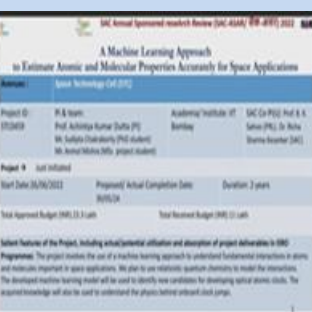



8.	STC0444	Dr. Baladitya Suri	IISc Bangalore	Generation and Characterisation of Entangled Microwave Photon states using a Josephson Parametric Convertor	Shri Pankaj Kumar Gupta & Smt. Priyanka
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9.	STC0459	Prof. Achintya Kumar Dutta	IIT Bombay	A Machine Learning Approach to Estimate Atomic and Molecular Properties Accurately for Space Applications	Dr. B. K. Sahoo. (PRL) & Dr. (Smt) Richa Sharma Kesarkar (SAC)
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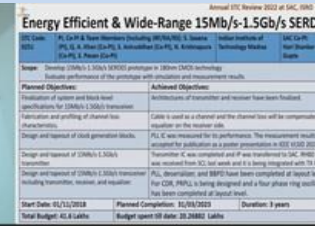

क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
10.	STC0363	Dr. Gagan Kumar	IIT Guwahati	Plasmonic metamaterials based filters for photonic applications in space	Shri. Pranav Kumar Pandey & Dr. Makaraju Srinivasa Raju
   					
11.	STC0405	Prof. Amol Choudhary	IIT Delhi	Microwave photonic devices for Space Applications	Shri Koushik Basak
  					
12.	STC0418	Prof. Sudipta Dubey	IIT Kanpur	Investigation of color centers in atomically thin hexagonal boron nitride as a source of quantum emitters	Dr. Harish Seth & Dr. Naresh Babu Pendyala
   					

क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैंक फोकल व्यक्ति
13.	STC0072	Dr. Nagendra Krishnapura Presented by Dr. Saurabh Saxena	IIT Madras	16bit 5MS/s analog to digital converter	Dr. Hari Shanker Gupta





14.	STC0251	Dr. Saurabh Saxena	IIT Madras	Energy efficient & wide-range 15Mb/s-1.5Gb/s SERDES	Dr. Hari Shanker Gupta
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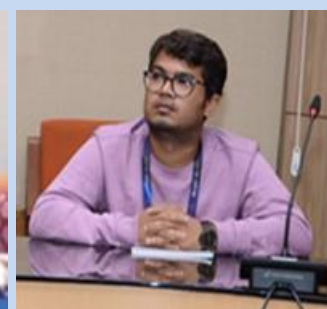

15.	STC0389	Prof. Amit Kumar	IIT Madras	Experimental Study of Flame Spread Under Convection In Micro-Gravity	Smt Payal Sharma, Shri Akash Gupta,
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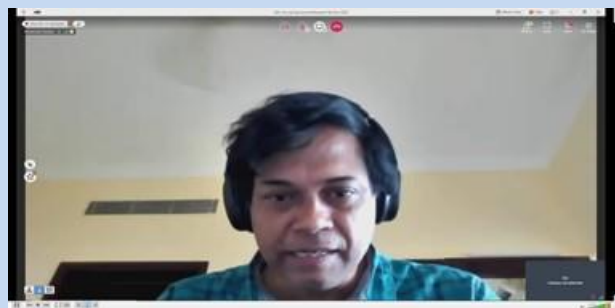




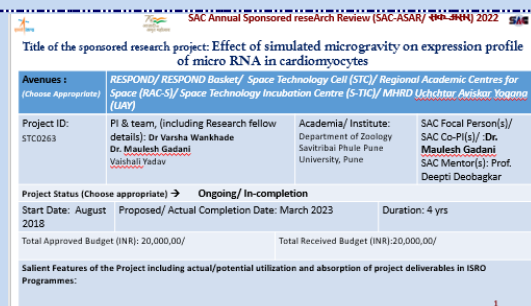
क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैंक फोकल व्यक्ति
16.	STC0390	Prof. T M Murugananda m	IIT Madras	Feasibility study of smoke characterization of flaming and smouldering materials in micro-gravity	Smt Payal Sharma & Shri Akash Gupta,



17.	STC0312	Prof. Debabrata Goswami	IIT Kanpur	Effect of lensing phenomenon on doped fiber for high power lasers	Shri R K Bahl (Superannuated) & Shri. Koushik Basak,
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18.	STC0263	Dr. Varsha W Wankhade	SPPU Pune	Effects of simulated microgravity on expression profile of micro RNA in human cardiomyocytes	Dr. Maulesh Gadani & Payal Sharma
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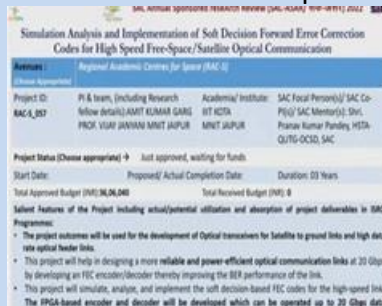
क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैंक फोकल व्यक्ति
19.	STC0301	Ms. Kalpana Pai	SPPU Pune	Effect of altered gravity on gene expression of Human Blood Mononuclear Cells and bone cell with special reference Immunity and differentiation	Dr. Maulesh Gadani, & Payal Sharma
					
20.	RAC-S_040	Prof. Prasun K. Roy	Shiv Nadar University, Greater Noida	Autonomic Neural Performance Index estimation using Cardiovascular, Respiratory and Behavioral Recordings	Smt. Payal Sharma, Shri Jayesh Jayarajan & Dr. Maulesh N Gadani
					
21.	RAC-S_045	Dr. Priya Ranjan Muduli	IIT BHU, Varanasi	Development of Wearable Internet of Medical Things for Continuous Health Monitoring of Astronauts	Shri Jayesh Jayarajan, Smt. Payal Sharma & Dr. Maulesh N Gadani
					

क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैंक फोकल व्यक्ति
22.	RAC-S_024	Dr. Mandeep Singh	NIT Karnataka, Surathkal	Programmable photonic microwave signal generation using on-chip spectral shaper for satellite communication	Shri Abhishek Khanna & Shri R K Bahl (Superannuated)






23.	RAC-S_057	Dr. Amit Kumar Garg	Indian Institute of Information Technology, Kota	Simulation Analysis and Implementation of Soft Decision Forward Error Correction Codes for High Speed Free-Space/Satellite Optical Communication.	Shri Pranav Kumar Pandey
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रिकॉर्डकर्ता Records By



Shri Sidharth Singh

Shri Uttam Dey

HSTA

समूह फोटो- सत्र-01-ए :समानव अंतरिक्ष उड़ान और उन्नत प्रौद्योगिकी



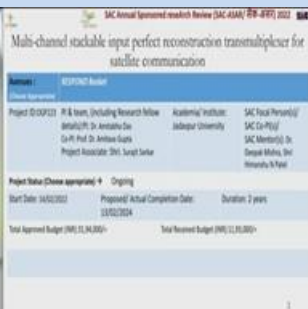
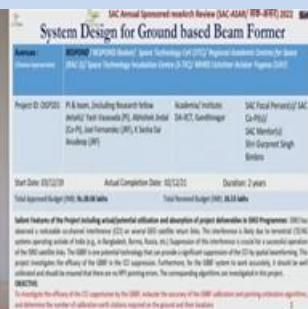
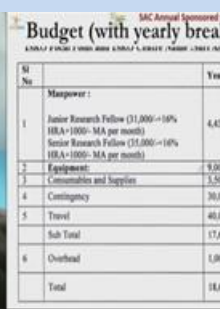
समूह फोटो- सत्र-01-बी :समानव अंतरिक्ष उड़ान और उन्नत प्रौद्योगिकी



दूसरा दिन – एसएनपीए- नवंबर 10, 2022 (गुरुवार)

सत्र-02: सैटकॉम- सैटनव प्रौद्योगिकी

अध्यक्ष: श्री सुमितेश सरकार, उ.नि., एसएनपीए

Sr. No	Project ID	PI Name	Uni./ Institute	Research Title	SAC Focal Person(s)
24.	OGP223	Dr. Amitabha Das	Jadavpur University, Kolkata	Multi-channel stackable input perfect reconstruction transmultiplexer for satellite communication	Dr. Deepak Mishra & Shri Himanshu N Patel
   					
25.	OGP201	Dr. Yash Vasavada	DA-IICT, Gandhinagar	System design for Ground based Beam Former	Shri Gurpreet Singh Bimbrow
  					
26.	STC0364	Dr. Pamu Dobbidi	IIT Guwahati	Development of low loss Ni-Zn ferrite for S band Circulator	Shri Ashish Jain & Shri Suman Aich
   					

क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैंक फोकल व्यक्ति
27.	STC0311	Prof. Adrish Banerjee	IIT Kanpur	Forward Error Control (FEC) Schemes for High Data Rate Optical Communications	Dr. S C Bera, Shri R K Bahl (Superannuated)



28.	RAC-S_038	Dr. Kishor Prabhakar Sarawadekar	IIT BHU, Varanasi	Development of Variable data rate CCSDS compliant Direct Digital Demodulator	Shri Deepak Mishra, Smt. Aasiyabanu N Topiwala
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29.	RAC-S_028	Dr. Mamata Maisnam	NIT Manipur	Synthesis of spinel structured lithium based soft ferrimagnets for application in satellite communication	Shri Tushar Gajjar & Shri Krunal Parikh
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क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
30.	RAC-S_025	Dr. A. Karthikeyan	NIT Karnataka, Surathkal	Design and Development of Multi Input/Multi Output Power Converter	Smt. Trapti Katiyar & Shri Amit Kumar



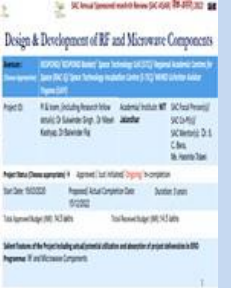



31.	IIST/SAC/11/2021/23	Dr. Vani Devi M	IIST Thiruvananthapuram	Interference analysis and co-existence studies between GSO and NGSO satellite systems	Dr. S.C. Bera & Shri Saket Buch Dipak
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32.	SAC_S-TIC_0015_1	Dr. Nitesh Kashyap	Dr. B.R. Ambedkar NIT Jalandhar	Design & Development of RF and Microwave Components (Passive Components)	Dr. S. C. Bera & Smt. Harshita Tolani
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रिकॉर्डकर्ता Records By



Ms Priyanka Priya

Shri Trivedi Balmukund

एसएनपीए SNPA

समूह फोटो -सत्र-02: सैटकॉम-प्रौद्योगिकी



तीसरा दिन – एसएसए - नवंबर 11, 2022 (शुक्रवार)

सत्र-03: सैटकॉम-सैटनव अनुप्रयोग

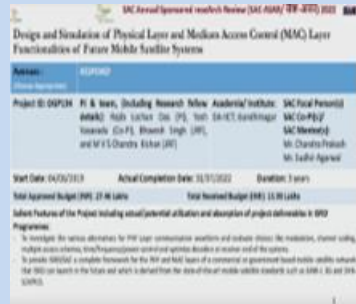
अध्यक्ष: डॉ. के के सूद, उ.नि., एसएसए

क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
33.	OGP211	Dr. Bhaskar Chaudhury	DA-IICT, Gandhinagar	Satellite Network Simulator (SNS) with ULPC and ACM features	Smt. Rupal Yagnik & Shri Sunil Singh Kushwaha






34.	OGP194	Dr. Yash Vasavada	DA-IICT, Gandhinagar	Design and Simulation of Beamforming Algorithms and Baseband Technologies for SATCOM On the Move (SOTM) Networks	Dr. Chandra Prakash
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35.	OGP196	Dr. Rajib Lochan Das Presented by Co-PI Dr. Yash Vasavada	DA-IICT, Gandhinagar	Design and Simulation of Physical Layer and Medium Access Control (MAC) Layer Functionalities of Future Mobile Satellite Systems	Dr. Chandra Prakash & Shri Sudhir M. Agarwal
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क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैंक फोकल व्यक्ति
36.	OGP209	Dr. Mrinal Sarvagya	Reva University, Bengaluru	Combining Hyperbolic and NavIC navigation algorithms for attitude control of ship in floating dry dock	Dr. Rajat Acharya
  					
37.	OGP217	Dr. Sachin Gajjar	Nirma University, Ahmedabad	Development and Testing of NavICSuite: Processing Software Tool for NavIC Receiver	Dr. Rajat Acharya
  					
38.	OGP190	Dr. Swastika Chakraborty	Sikkim Manipal Institute of Technology, East Sikkim	Experimental Studies on tropospheric scintillation and associated rain attenuation for SATCOM links over North Eastern India (Sikkim) at Ku/Ka-Band	Dr. Rajat Acharya & Dr. Ashish Shukla
   					

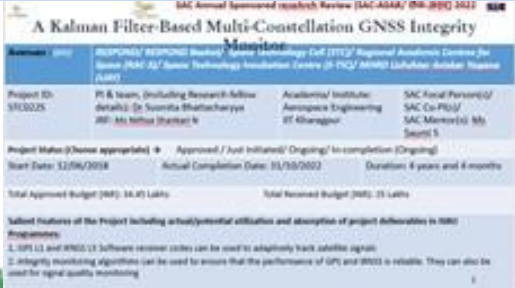
क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैंक फोकल व्यक्ति
39.	OGP212	Dr. Sanjeev Gupta Presented by Co-PI Dr. Yash Vasavada	DA-IICT, Gandhinagar	Adaptive Beam Forming for Mitigation of Interference and Jamming at the Ground Terminal of Global Navigational Satellite Systems (GNSS)	Smt. Saumi S & Shri Kalpesh Kumar Borsadiya
   					

40.	STC0410	Prof. Rakesh Kumar Palani	IIT Delhi	Development of Signal Processing Chip for GNSS Anti-jamming functionality	Smt. Saumi S
  					

41.	STC0309	Prof. Salil Goel	IIT Kanpur	SPIRIT: A Post-Processing System for NavIC Signals for High-Precision Applications	Shri Y R Patel & Shri Deval Mehta
   					

क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
42.	STC0225	Dr. Susmita Bhattacharyya	IIT Kharagpur	A Kalman Filter-Based Multi-Constellation GNSS Integrity Monitor	Smt. Saumi S

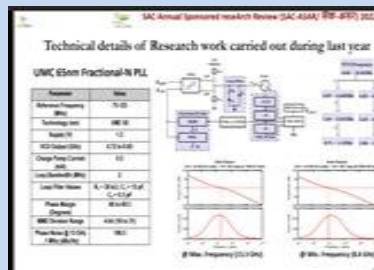






43.	STC0293	Dr. Bibhudatta Sahoo	IIT Kharagpur	Radiation Tolerant All Digital Wide-Tuning Range Fractional-N Phase-Locked Loop (PLL)	Smt. Saumi S
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44.	STC0435	Dr. Banibrata Mukherjee	IIT Kharagpur	Development of High Performance GNSS-INS Integration Scheme for Accurate Navigation and it's Implementation in Embedded Platform	Shri Saurabh Bhalla & Smt. Saumi S
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क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
45.	STC0433	Dr. Bibhudatta Sahoo	IIT Kharagpur	Mixed signal ASIC for NavIC receiver	Shri Arindam Mal, & Smt. Saumi S





46.	STC0247	Dr. Raja Datta	IIT Kharagpur	Improved Protocols, Techniques and Algorithms for Inter-planetary Networks	Dr. Mohanchur Sarkar
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47.	STC0349	Dr. Darshak Bhatt	IIT Roorkee	RF front-end of Tri-band for the IRNSS using CMOS/BiCMOS process.	Dr. Chandra Prakash & Shri Arindam Mal
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क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैंक फोकल व्यक्ति
48.	RAC-S_037	Dr. Brahmjit Singh	NIT Kurukshetra	Development of a deep learning enabled algorithm for automatic modulation recognition in blind RF environment	Smt. Saumi S, & Dr. Chandra Prakash






49.	RAC-S_032	Dr Priyanka Ahlawat	NIT Kurukshetra	Key management for secure multicast applications in Space Terrestrial Integrated Network	Dr. Mohanchur Sarkar & Shri Pravin Patidar
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50.	SAC_S-TIC_0016	Dr. Sateesh Kumar Awasthi	Dr. B.R. Ambedkar NIT Jalandhar	Development of NavIC based Asset Tracking system	Shri Kalpesh Borsadiya
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रिकॉर्डकर्ता Records By



Ms Kanika Jakhar

Smt Renuka Tandan

एसएसएए SSAA

समूह फोटो-सत्र-03:सैटकॉम-सैटनव अनुप्रयोग



चौथा दिन – एसआईपीजी- नवंबर 12, 2022 (शनिवार)

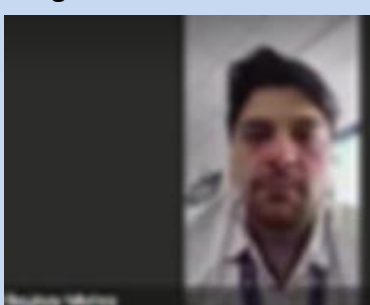
सत्र-04: आरएस-डेटा उत्पाद तथा आईपी

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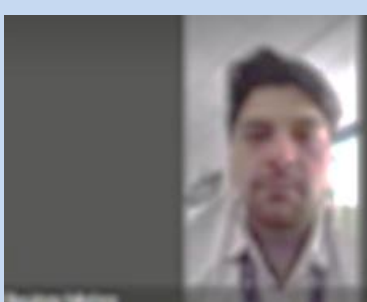
क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैंक फोकल व्यक्ति
51.	OGP203	Prof. Dr. Amitava Gupta	Jadavpur University, Kolkata	Vision guided Auto-Lander for Planetary missions	Shri Amitabh & Shri Ritesh Kumar Sharma



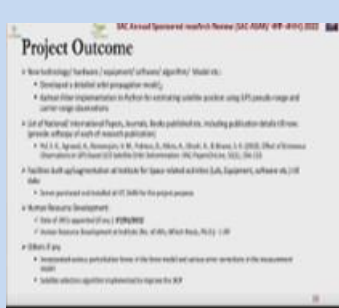

52.	OGP193	Dr. V. Santhi	Vellore Institute of Technology, Vellore	Speckle noise reduction in SAR images using Neuro-Fuzzy approaches for coastal zone change detection and monitoring	Shri Raghav Mehra
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53.	OGP202	Prof. Sheli Sinha Chaudhuri	Jadavpur University, Kolkata	Neuro-Fuzzy Synergism based POLSAR Image Classification	Shri Raghav Mehra & Dr. (Smt.) Arundhati Misra (Superannuated),
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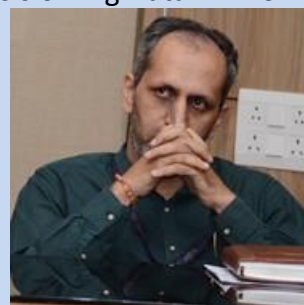
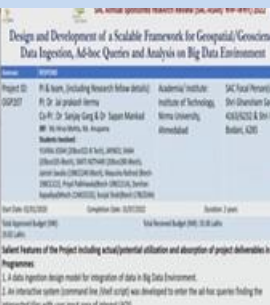

क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैंक फोकल व्यक्ति
54.	OGP214	Dr. Ratna Ghosh	Jadavpur University, Kolkata	Orbit parameter refinement using GNSS carrier phase data in post facto scenario for Interferometric SAR and Pol InSAR applications	Shri V M Ramanujam, Shri Deepak Putrevu & Dr. Jai Kumar



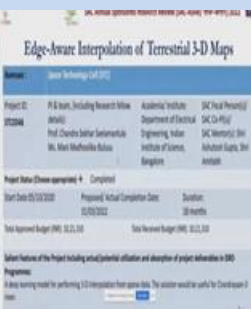
55.	OGP221	Dr. Puneet Gupta	IIT Indore	Spatio-spectral Deconvolution of Hyperspectral Images	Shri Ankur Garg
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56.	OGP207	Dr. Jai Prakash Verma	Nirma University, Ahmedabad	Design and development of a Scalable Framework for Geospatial/Geoscience Data Ingestion, Ad-hoc Queries and analysis on Big Data Environment	Shri Ghansham Sangar, Shri Pankaj Bodani
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क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
57.	STC0346	Prof. Chandra Sekhar Seelamantula	IISc Bangalore	Edge-Aware Interpolation for Terrestrial 3-D Maps	Shri Ashutosh Gupta & Shri Amitabh



58.	STC0347	Dr. Rathna G N	IISc Bangalore	High Precision Satellite Image Denoising in Hardware	Shri Ashutosh Gupta & Shri K. Suresh
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59.	STC0441	Dr. Rahul Singh	IISc Bangalore	Unsupervised Semantic Segmentation of High Resolution Satellite Images	Shri. Badal Neeraj
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क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैंक फोकल व्यक्ति
60.	STC0343	Prof. Rajiv Soundararajan	IISc Bangalore	Quality Assessment of Pansharpned Images	Shri Ankur Garg

61.	STC0316	Dr. Kunal Narayan Chaudhury	IISc Bangalore	Super resolution of Hyperspectral Remote Sensing Images	Shri Ankur Garg & Shri Debajyoti Dhar

62.	RAC-S_029	Dr. M. Nagabushan	MSRIT Bangalore	Customized Reconfigurable Platform for Image/Video Compression based on Deep Learning Algorithms for Hyperspectral Images	Shri Ankur Garg

क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैंक फोकल व्यक्ति
63.	SAC_S-TIC_0013	Dr Om Prakash Verma	Dr. B.R. Ambedkar NIT Jalandhar	Single Object Tracking in a video/Image Sequence using Machine/Deep Learning Techniques	Shri Tushar Shukla, Shri Abhishek Kumar Sinha & Shri Debajyoti Dhar



रिकॉर्डकर्ता Records By



Smt Arpita Gajria



Shri Jigneshkumar R Kshatriya

एसआईपीजी SIPG

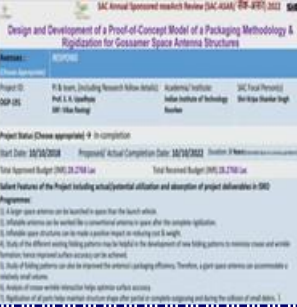
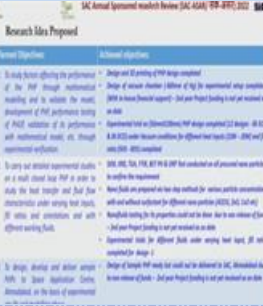
समूह फोटो-सत्र-04: आरएस-डेटा उत्पाद तथा आईपी



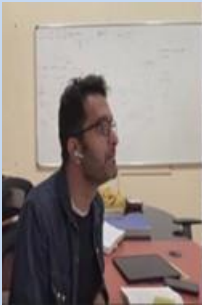
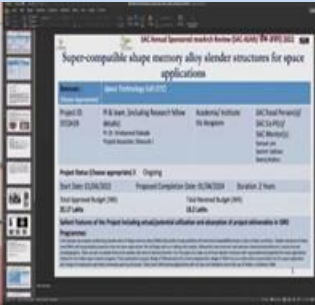
पाँचवा दिन – मेसा - नवंबर 14, 2022 (सोमवार)

सत्र-05: यांत्रिक प्रणालियाँ

अध्यक्ष: श्री आनंद विष्णुप्रसाद पाठक, उ.नि., मेसा तथा श्री अरूप कुमार हैत, स.नि., एमपीएमजी, मेसा

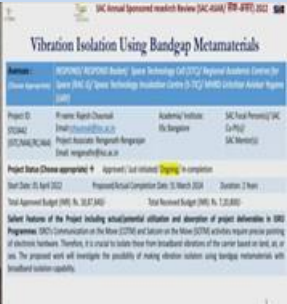
क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैंक फोकल व्यक्ति
64.	OGP192	Dr. M Abdul Kader	Central Institute of Plastics Engineering & Technology, Ahmedabad	Development, Testing and Characterization of 1m Dia Ku-Band P.E.E.K parabolic reflector with and without Metallization for Spacecraft Applications	Shri Jaimin Desai & Shri Nitin Kumar
  					
65.	OGP191	Dr. Sanjay H Upadhyay	IIT Roorkee	Design and Development of a Proof-of-Concept Model of a Packaging Methodology & Rigidization for Gossamer Space Antenna Structures	Shri Kripa Shanker Singh
  					
66.	OGP208	Dr. M. Narendra Kumar	Jyothy Institute of Technology, Bengaluru	Thermal Management of Space Electronics using Multi-turn Pulsating Heat Pipes (PHP)	Shri Dinesh Nolakha
  					

क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैंक फोकल व्यक्ति
67.	STC0439	Dr. Vivekanand Dabade	IISc Bangalore	Super-compatible shape memory alloy slender structures for space applications	Shri Samyak Jain, Shri Sammir Shakhare & Shri Neeraj Mathur




68.	STC0442	Dr. Rajesh Chaunsali	IISc Bangalore	Vibration Isolation using Bandgap Metamaterials	Shri. Ripusudan Agrawal, Shri. Sammir Sakhare & Shri Neeraj Mathur
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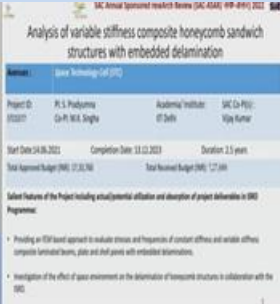


69.	STC0428	Prof. Harish K. Pillai	IIT Bombay	Serpenoid robots for unmanned exploration of Moon and Mars	Shri Hemant Arora, Shri Shashank Pachauri
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क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
70.	STC0377	Dr. S. Pradyumna	IIT Delhi	Analysis of variable stiffness composite honeycomb sandwich structures with embedded delamination	Shri Vijay Kumar


71.	STC0452	Dr. Shrikrishna Nandkishor Joshi	IIT Guwahati	Design and development of efficient tool-path strategies of precision high-speed machining of monolithic thin-walled structures for construction of light-weight satellites and spacecrafts	Shri. D.K. Yadav
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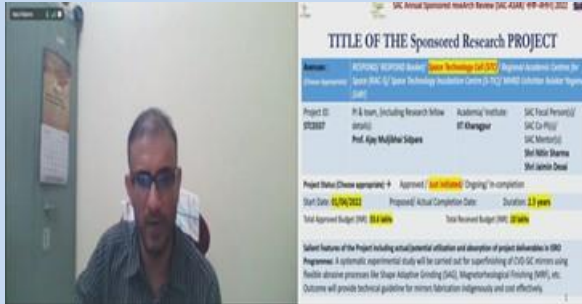


72.	STC0235	Dr. Nachiketa Tiwari	IIT Kanpur	Stabilization of a 3D Platform for Space Applications Against Rolling and Pitching Excitations	Shri Naimesh R Patel & Shri Neeraj Mathur
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क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
73.	STC0337	Prof. Ajay Muljibhai Sidpara	IIT Kharagpur	Development of Nano-polishing Technology for Metal Mirror	Shri Nitin Sharma & Shri Jaimin Desai



74.	STC0447	Dr. Nilanjan Das Chakladar	IIT Kharagpur	Fabrication and modelling of a Hybrid composite antenna reflector	Shri Nitin Kumar & Shri Neeraj Mathur
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75.	STC0297	Dr. S. H. Upadhyay	IIT Roorkee	Deployment Mechanisms for 12m Diameter Spacecraft Antennas	Shri Hemant Arora & Shri Arup Kumar Hait
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क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
76.	STC0282	Dr. Girish N. Kotwal	SPPU Pune	Development of Nano-polishing technology for metal mirror	Shri Jaimin Desai
					
77.	RAC-S_010	Prof. Upender Pandel	Malaviya NIT Jaipur	Synthesis and characterization study of CuNiFeCrMo- Graphene oxide Nano composites to enhance thermal and mechanical properties of material	Shri Jaimin Desai & Shri Nitin Kumar
					
78.	YS_PD-IP_2021_364	Dr. Bukke Kiran Naik	NIT Rourkela	Design and development of Magneto Resistive Heat Switch	Shri Vivek Kumar Singh, & Shri. Sandip R Somani
					

क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
79.	YS_PD-IP_2021_344	Dr. Suresh S	NIT Trichy	Development of Ammonia based Flexible Heat Pipe for Space Applications	Shri Vivek Kumar Singh, & Shri. Sandip R Somani,






80.	UAY0009	Prof. Asim Tewari	IIT Bombay	Hybrid Additive-Subtractive Manufacturing technology development	Shri S S Gill,
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रिकॉर्डकर्ता Records By



Shri Dinesh Nolakha
मेसा MESA

समूह फोटो- सत्र-05: यांत्रिक प्रणाली



अध्यक्ष: डॉ. मिलिंद महाजन, स.नि., एएसजी

Page 45 of 105

क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
84.	OGP186	Shri K. Krishnamoorthy	National Institute of Technology Karnataka, Mangalore	Design and Development of Wideband Circularly Polarized Antenna using 2D Metamaterial Structures	Shri Pratik Mevada



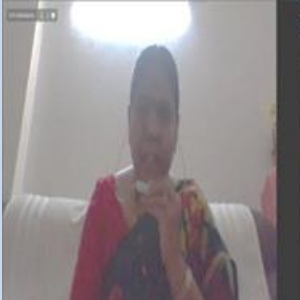


85.	OGP216	Dr. Yogeshwar Prasad Kosta	CHARUSAT Space Research & Technology Center, Chandubhai S. Patel Institute of Technology, Changa	Design and development of X-band prime focal reflectarray antenna	Shri Pratik Mevada
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86.	OGP183	Dr. P. Jothilakshmi	Sri Venkateshwara College of Engineering, Sriperumbudur Tk.	Ku-band Tx/Rx transportable reflect array Antenna for satellite communication	Shri Sagi Sravan Kumar
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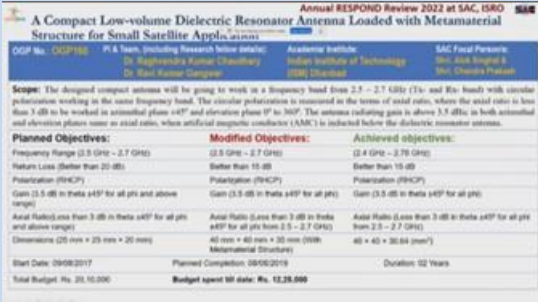


क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
87.	OGP218	Dr. Piyush Bhatasana	Nirma University, Ahmedabad	Design, Analysis and Development of Fabry Perot Cavity based Feed Cluster	Shri Kaushik Kannan & Shri Sagi Sravan Kumar






88.	OGP160	Dr. Raghvendra Kumar Chaudhary	Indian Institute of Technology (ISM), Dhanbad	A Compact Low-volume Dielectric Resonator Antenna Loaded with Metamaterial Structure for Small Satellite Application	Shri Alok Kumar Singhal & Dr. Chandra Prakash
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89.	STC0271	Dr. Deepak Gupta Presented by Dr. Ashutosh Tripathi	IIT Kanpur	Development of Reconfigurable Flat-Panel Metasurface Antenna	Dr. M B Mahajan & Shri Pratik Mevada
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क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
90.	STC0259	Dr. Sumit Basu	IIT Kanpur	Development and Evaluation of Multiscale CNT/polymer composites	Shri Jaimin Desai

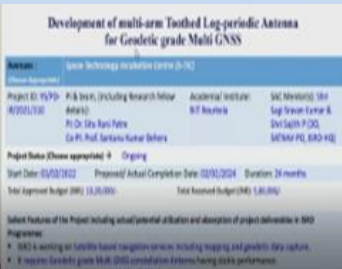



91.	RAC-S_046	Dr. Manoj Kumar Meshram	IIT BHU, Varanasi	Design and development of Reconfigurable Reflectarray Antenna at X-band	Shri Yogesh Tyagi & Dr. Vijay Kumar Singh
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92.	YS_PD-IP_2021_310	Dr. Situ Rani Patre	NIT Rourkela	Development of multi-arm Toothed Log-periodic Antenna for Geodetic grade Multi GNSS	Shri Sagi Sravan Kumar, & Shri Sajith P (DD, SATNAV-PO, ISRO-HQ)
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रिकॉर्डकर्ता Records By



Shri S. Krishna Prasad

Shri. Pratik Mevada

एसजी ASG

समूह फोटो-सत्र-06:रेंटेंना



सातवां दिन- सेडा- नवंबर 16, 2022(बुधवार)

सत्र-07: विद्युत-प्रकाशीय प्रौद्योगिकी

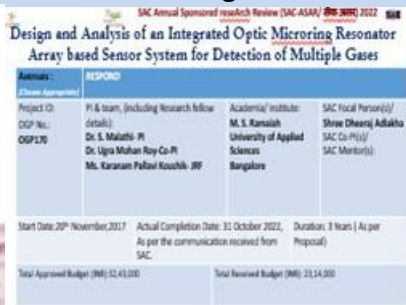
अध्यक्ष: श्री सौम्य एस सरकार, उ.नि., सेडा

क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
93.	OGP187	Dr. Shiv Govind Singh	IIT Hyderabad	Design, Fabrication and Characterization of Uncooled Microbolometer for IR Imaging Applications	Shri Ankur Jain





94.	OGP170	Dr. S. Malathi	M.S Ramaiah University of Applied Sciences, Bengaluru	Design and analysis of an Integrated optic microring resonator array based sensor system for detection of multiple gases	Shri Dheeraj Kumar Adlakha
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95.	OGP177	Dr. Rajan Jha	IIT Bhubaneswar	Design and study of Nano and micro displacement sensor based on Photonic Crystal Fiber modal interferometer	Dr. M Senthil Kumar & Shri Archit Dube
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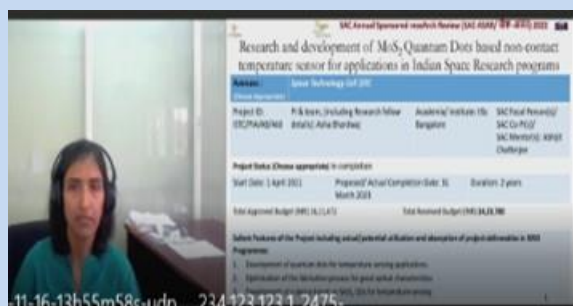
क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
96.	OGP227	Dr. Hitesh Shrimali	IIT Mandi	The Design and analysis of a Silicon Particle Detector Array using High Voltage CMOS process for Space Application	Shri Sanjeev Mehta & Shri Mohammad Waris

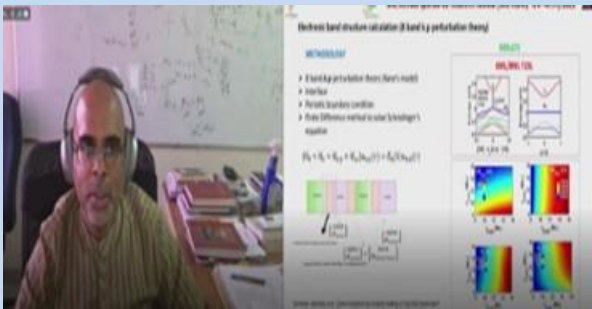
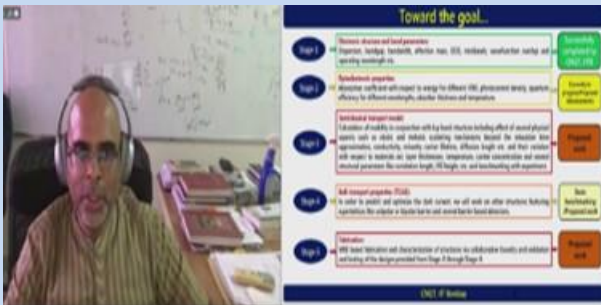


97.	OGP133	Dr. Vijay Nath	Birla Institute of Technology Mesra, Ranchi	Design of Ultra Low Power CMOS (Complementary Metal Oxide Semi-Conductor) temperature sensor for aerospace applications	Shri Manish Mehta
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98.	STC0385	Prof. Asha Bhardwaj	IISc Bangalore	Research and development of MoS2 Quantum Dots based non-contact temperature sensor for applications in Indian Space Research programs	Dr. Abhijit Chatterjee
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क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैंक फोकल व्यक्ति
99.	STC0272	Dr. Bhaskaran Muralidharan	IIT Bombay	Comprehensive Simulation Engine for Type-II Superlattice based Barrier Infrared Photodetectors	Shri Arup Banerjee
 					
100.	STC0426	Prof. Bhaskaran Muralidharan	IIT Bombay	Advancing technology CAD simulations on superlattice structures for MWIR and SWIR sensors	Shri Arup Banerjee
 					
101.	STC0239	Dr. Debabrata Goswami	IIT Kanpur	Molecular Size and Mass Sensitive Ultrasensitive Thermal Spectrometer Applications	Shri Arup Banerjee
 					

क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
102.	RAC-S_044	Dr. Shivam Verma	IIT BHU, Varanasi	Development of Graphene/CNT FET based sensors for Space Applications	Dr. Abhijit Chatterjee & Shri Arup Banerjee



Development of graphene/CNT FET based sensors for space applications

Project ID: RAC-S_044

PI & team, including Research Fellow details:
Dr. Shivam Verma, IIT BHU
Dr. Arup Banerjee, IIT BHU

Academic Institution: Indian Institute of Technology (IIT) BHU

SAC (PI/Personnel): SAC Co-PI: Dr. Abhijit Chatterjee & Shri Arup Banerjee

Project Status (Choose appropriate): Approved / Not Initiated / Ongoing / In Completion

Start Date: 27th Feb, 2022 **Proposed Actual Completion Date:** NA **Duration:** 2 years

Total Approved Budget (INR): 2,50,000 **Total Revised Budget (INR):** 2,50,000

Abstract/Summary of the Project including actual/potential utilization and description of project information in SAC Programme:
The project is just initiated.




103.	RAC-S_060	Dr. Anand Darji	Malaviya NIT Jaipur	Onboard spectral preprocessing for multispectral image compression using FPGA	Shri Jimit Gadhia & Shri Ankur Garg
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Onboard spectral preprocessing for multispectral image compression using FPGA

Project ID: RAC-S_060

PI & team, including Research Fellow details:
Anand Darji (PI), IIT Jaipur
Jimit Gadhia (Co-PI), IIT Jaipur
Ankur Garg (Co-PI), IIT Jaipur

Academic Institution: Malaviya National Institute of Technology, Jaipur

SAC (PI/Personnel): SAC Co-PI: Jimit Gadhia, Ankur Garg

Project Status (Choose appropriate): Approved / Not Initiated / Ongoing / In Completion

Start Date: 27th Feb, 2022 **Proposed Actual Completion Date:** NA **Duration:** 2 years

Total Approved Budget (INR): NA **Total Revised Budget (INR):** NA

Abstract/Summary of the Project including actual/potential utilization and description of project information in SAC Programme:
The project is just initiated.




104.	SAC_S-TIC_0007	Dr Ashish Raman	Dr. B.R. Ambedkar NIT Jalandhar	FPGA based High Speed CCSDS Processor for Baseband Receiver	Shri H. A. Rambhia & Smt. B.A. Vaidya (Superannuated)
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FPGA based High Speed CCSDS Processor for Baseband Receiver

Project ID: SAC_S-TIC_0007

PI & team, including Research Fellow details:
Dr. Ashish Raman (PI), IIT Jalandhar
Shri H. A. Rambhia (Co-PI), IIT Jalandhar
Smt. B.A. Vaidya (Co-PI), IIT Jalandhar

Academic Institution: Dr. B.R. Ambedkar National Institute of Technology, Jalandhar

SAC (PI/Personnel): SAC Co-PI: Shri H. A. Rambhia & Smt. B.A. Vaidya

Project Status (Choose appropriate): Ongoing

Start Date: 27th Feb, 2022 **Proposed Actual Completion Date:** December 2023 **Duration:** 2 years

Total Approved Budget (INR): 10,00,000 **Total Revised Budget (INR):** 10,00,000




क्र. सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
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105.	YS_PD-IP_2021_333	Dr. Nikhil Deep Gupta	VNIT, Nagpur	Development of Photodetector for low intensity light levels in UV/VIS/IR wavelength regions	Shri Ashwani Kumar & Dr. K Raghunath (NARL)
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106.	UAY0001	Dr. Mukul Sarkar	IIT Delhi	Wide-area field of view CMOS image sensors for aerial surveillance for defense applications	Shri Arup Banerjee, Smt. Parul Singh
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रिकार्डकर्ता Records By



Shri Amit Kumar Singh

Shri Ankush Kumar

सेडा SEDA

समूह फोटो-सत्र-07: विद्युत-प्रकाशीय प्रौद्योगिकी

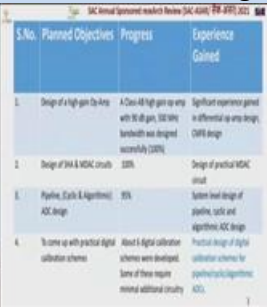


आठवाँ दिन – एमआरएसए- नवंबर 17, 2022 (गुरुवार)

सत्र-08: सूक्ष्म तरंग प्रौद्योगिकी

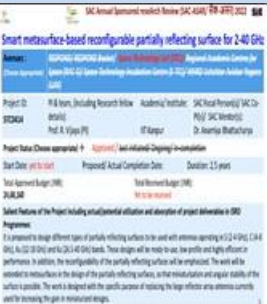
अध्यक्ष: डॉ. ची. वें. नरसिंहा राव, उ.नि., एमआरएसए

क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैंक फोकल व्यक्ति
107.	OGP174	Prof. Subhajit Sen	International Institute of Information Technology, Bengaluru	A High-Speed SAR Analog to Digital Converter (ADC) with low distortion sample-hold front-end	Smt. Rinku A. Agrawal, Hari Shanker Gupta

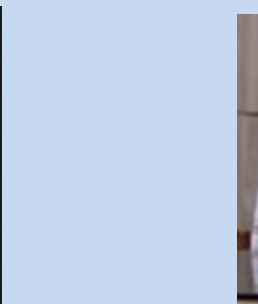





108.	STC0414	Prof. R. Vijaya	IIT Kanpur	Smart Metasurface-based Reconfigurable Partially Reflecting Surface for 2-40 GHz	Dr. Anamiya Bhattacharya
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109.	STC0178	Dr. Mrigank Sharad	IIT Kharagpur	Design of SET Tolerant High-Speed Transceiver for Chip to Chip Backplane Interconnect	Shri Himanshu N Patel & Dr. Hari Shanker Gupta
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क्र. सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
110.	STC0236	Dr. Mahendra Verma	IIT Kanpur	Parallel Electro-Magnetic Solver for Microwave, Infrared, and Optical applications (MIO-PEMS)	Dr. Anamiya Bhattacharya



111.	STC0313	Prof. Pradip Mandal	IIT Kharagpur	Design and Implementation of an efficient power management IC in sub-micron Technology for Space Application	Shri Himanshu Patel & Shri Vishnu Patel
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112.	STC0299	Dr. Nagendra Prasad Pathak	IIT Roorkee	Affordable Sub-millimeter/THz Components Using 3D Printed Dielectric Integrated Guides	Shri Prantik Chakraborty & Smt. Harshita Tolani
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क्र. सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
113.	SAC_S-TIC_0017	Dr. R. Pandeewari	NIT Trichy	Design and development of X –band & Ka-band passive devices	Smt. Harshita Tolani & Shri Samriti Kumar Garg
   					
114.	RAC-S_043	Dr. Somak Bhattacharyya	IIT BHU, Varanasi	Metasurface-based various components for applications in microwave and beyond	Dr. Jolly Dhar, Shri Praveen Kr Ambati & Shri Vinit Kumar
    					
115.	YS/PD-IP/2021/338	Dr. Prasun Chongder	NIT, Rourkela	Design & Development of active RF, microwave and mm-wave circuits	Smt. Harshita Tolani & Dr. Shailendra Singh
   					

रिकॉर्डकर्ता Records By



Shri Anamiya Bhattacharya
एमआरएसए MRSA

समूह फोटो-सत्र-08: सूक्ष्मतरंग प्रौद्योगिकी

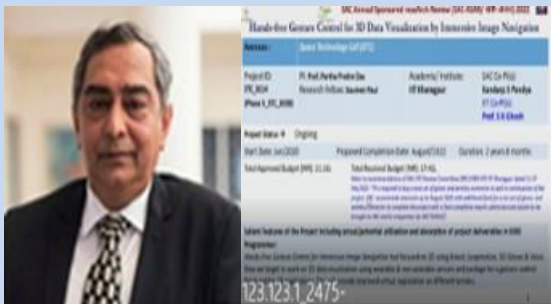


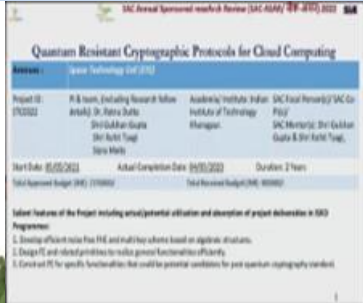
आठवाँ दिन- मीसा – नवंबर 17, 2022 (गुरुवार)

सत्र-09: प्रबंधन तथा सूचना प्रणाली

अध्यक्ष: श्री विवेक सिंह, उ.नि. मीसा

क्र. सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैंक फोकल व्यक्ति
116.	OGP195	Dr. Nityesh Bhatt	Nirma University, Ahmedabad	Govt. agency Initiatives for Scientific Research Management with special reference to Institute/ University Interface	Smt. Ankita Patel, Shri Sidharth Singh & Dr. Parul Patel
   					

117.	STC0214	Dr. Partha Pratim Das	IIT Kharagpur	Hands-free Gesture Control for 3D Data Visualization by Immersive Image Navigation	Shri Kandarp S Pandya
  					

118.	STC0322	Dr. Ratna Dutta	IIT Kharagpur	Quantum Resistant Cryptographic Protocols for Cloud computing	Shri Gulshan Gupta & Shri Rohit Tyagi
   					

क्र.सं	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
119.	RAC-S_052	Dr. Namita Mittal	Malaviya NIT Jaipur	Knowledgebase creation and Information extraction	Dr. Parul Patel, Dr. Abha Chhabra & Shri Jitendra Kumar Sharma
   					

120. IIST/SAC/ Dr. Deepak IIST Machine learning driven Augmented Shri Jai Gopal Singla
11/2021/ Mishra Thiruvananthapu Reality based Campus walkthrough.
22 ram



121. YS/PD- Dr. Narendra NIT, Jalandhar Development of a UV-assisted 3D Shri Ajay Kumar
IP/2021/ Kumar
408 Printing System for PCB Manufacturing



रिकॉर्डकर्ता Records By



Shri Gulshan Gupta

मीसा MISA

समूह फोटो- सत्र-09: प्रबंधन तथा सूचना प्रणाली

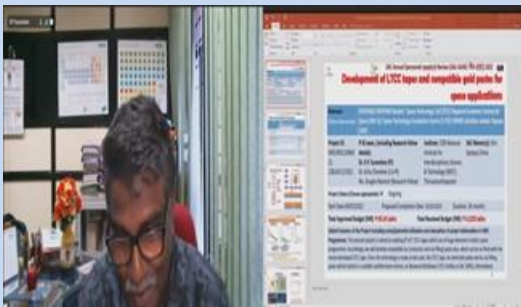


नौवां दिन – ईएसएसए - नवंबर 18, 2022 (शुक्रवार)

सत्र-10: इलेक्ट्रॉनिकी प्रणालियाँ

अध्यक्ष: श्री अपूर्व एन भट्टाचार्य, उ.नि., एस्सा

क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
122.	OGP219	Dr. K. P. Surendran	CSIR-National Institute for Interdisciplinary Sci. & Tech. Thiruvananthapuram	Development of LTCC tapes and compatible gold pastes for space applications	Shri Santanu Sinha

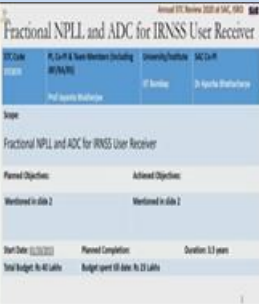
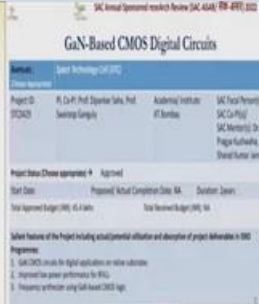
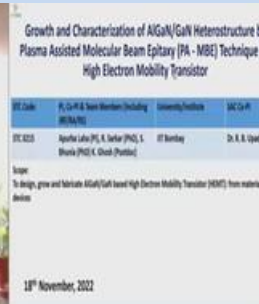



123.	STC0386	Prof. Kausik Majumdar	IISc Bangalore	Highly sensitive IR detection using photo-gating by electrically defined quantum dot	Dr. Naresh Babu Pendyala
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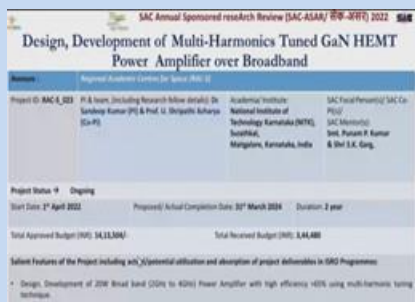

124.	STC0384	Dr. Tapajyoti Das Gupta	IISc Bangalore	Large Area flexible metasurface based photonic devices	Shri Prashant Varma
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क्र. सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
125.	STC0070	Dr. Jayanta Mukherjee	IIT Bombay	Fractional NPLL and ADC for IRNSS User Receiver	Shri A N Bhattacharya
  					
126.	STC0429	Prof. Dipankar Saha	IIT Bombay	GaN-Based CMOS Digital Circuits	Dr. Pragya Kushwaha, Shri Sharad Kumar Jain
   					
127.	STC0215	Dr. Apurba Laha	IIT Bombay	Growth and Characterization of AlGaIn/ GaN Heterostructure by Plasma Assisted Molecular Beam Epitaxy (PA-MBE) Technique for High Mobility Electron Transistor	Dr. Rajesh B Upadhyaya
  					

क्र. सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
128.	STC0229	Dr. Yogesh Singh Chauhan	IIT Kanpur	PDK Development and modeling support for ISRO's GaN HEMT Technology	Shri Santanu Sinha
  					
129.	STC0296	Prof. M.K. Mandal	IIT Kharagpur	Design and Development of Substrate Integrated Waveguide (SIW) based Bandpass Filters	Shri Santanu Sinha
  					
130.	RAC-S_027	Dr. Hemen Kumar Kalita	Gauhati University	Graphene based conductive ink for flexible and wearable printable electronics	Shri Aditya Kumar Sharma
  					

क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
131.	RAC-S_023	Dr. Sandeep Kumar	NIT Karnataka, Surathkal	Design, Development of Multi-Harmonics Tuned GaN HEMT Power Amplifier over Broadband	Smt. Punam P. Kumar & Shri S.K. Garg



132.	SAC_S-TIC_0006	Dr Subhas Chander	Dr. B.R. Ambedkar NIT Jalandhar	Improving the Conductive Heat Transfer Efficiency of Thermal Base Plate inside a Thermal Vacuum Chamber	Shri Rahul Khandekar, Shri Vikram Poonia & Shri Tino S
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133.	CeNSE_S AC001	Dr. Vijayaraghavan Madakisara	IISc Bangalore	Development of AlN based Film Bulk Acoustic Resonator (FBAR) based RF filters for space use	Shri Raj Kumar, Smt. Urvi P. Popat Shri Mukund Kumar Singh, & Shri Nihar Vaish
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क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
134.	YS_PD- IP_2021_ 396	Dr. Rahul Prajesh	CSIR-CEERI, Pilani, Rajasthan	Design and development of Thermal Ribbon Temperature Sensor	Shri Patel Jaymeen Jayeshbhai & Dr. Parvesh Kumar





रिकॉर्डकर्ता Records By



Dr. Pragya Kushwaha

Shri Rakeshkumar K Kaneriya

एस्सा ESAA

समूह फोटो- सत्र-10:इलेक्ट्रॉनिकी प्रणालियाँ



नौवां दिन 9 – एसआरए- नवंबर 18, 2022 (शुक्रवार)

सत्र-11: विश्वसनीयता परीक्षण

अध्यक्ष: सुश्री. शिल्पा पंड्या, स.नि., एसआरए-ईक्यूएजी

क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैंक फोकल व्यक्ति
135.	OGP167	Prof. Deepak Ghodgaonkar	Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), Gandhinagar	Development of Microwave Absorber (Carbonyl Iron Filled Silicon Rubber Sheets) in 1 to 8 GHz range	Shri A K Lal (Superannuated) Shri Anil Kumar Shah Mrs. Nandini A Deshpande






136.	OGP226	Dr. Saurabh Tiwari	DA-IICT, Gandhinagar	An Empirical Analysis on Deriving Test Cases from Natural Language Text using MBT Approach	Shri Sanjay M Trivedi & Shri Akhilesh Sharma
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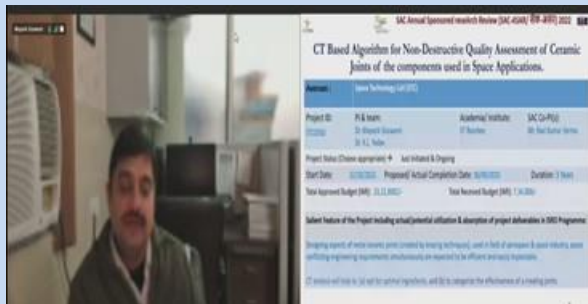



137.	OGP175	Dr. Subhashis Chatterjee	Indian Institute of Technology (ISM), Dhanbad	Predicting Reliability and Optimal release time of various categories software systems	Shri Akhilesh Sharma, & Shri Yogesh Verma,
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क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
138.	STC0350	Prof. Mayank Goswami	IIT Roorkee	Computer Tomography (CT) Based Algorithm for Non-Destructive Quality Assessment of Joints of the components used in Space applications	Shri Ravi Kumar Varma & Shri H.M. Modi (Superannuated)



139.	RAC-S_017	Dr. Rahul Singhal	Malaviya NIT Jaipur	Development of novel CoFe ₂ O ₄ / CaCu ₃ Ti ₄ O ₁₂ /polymer composites for EMI attenuation	Shri R. K. Hegde & Shri Bhuwaneshwar Semwal
Presented by Ms. Neelam, JRF					



रिकॉर्डकर्ता Records By



Shri Naveen Kumar Mishra

एसआरए SRA

समूह फोटो- सत्र-11:विश्वसनीयता परीक्षण



दसवाँ दिन – एप्सा- नवंबर 21, 2022 (सोमवार)

सत्र-12-ए: पृथ्वी, समुद्री, वायुमंडलीय, ग्रहीय विज्ञान तथा अनुप्रयोग

अध्यक्ष: डॉ. रश्मि शर्मा, स.नि., एप्सा-एओएसजी

क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
140.	OGP158	Dr. Venkatraman Seetaram Hegde	S.D.M. College of Engineering and Technology, Dharwar	Sediment budget and estuarine dynamics along the West Coast of India: Implications for Coastal Hazards Management - A Case study of Gangolli estuary, Near Kundapur, Karnataka	Shri Ratheesh Ramakrishnan



141.	OGP189	Dr. K. Rajakumar	School of Computer Science and Engineering, VIT University, Vellore	Development of Automated Web Based Online Feature Tracking system using Shape Adaptive Curvelet with PCA and Haralick Texture Feature	Shri Deepak Putrevu
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142.	OGP206	Dr. Sunita Verma	Banaras Hindu University, Varanasi	Prediction of ground-level particulate matter concentrations from Multi-Satellite Aerosol Optical Depth (AOD) over the Indian Subcontinent	Dr. Manoj Kumar Mishra
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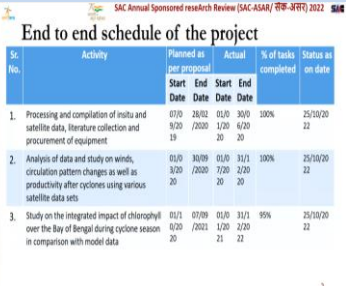


क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
143.	OGP213	Dr. Srimanta Mandal Presented by Shraddha Makhija, JRF	Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), Gandhinagar	SAR Polarimetric image classification using Wishart Mixture model and Convolution Neural Networks	Shri Deepak Putrevu, Dr. Parul Patel
   					

144.	OGP188	Dr. Arti Khaparde	Dr. Vishwanath Karad MIT World Peace University (MIT-WPU), Pune	Development of Time Weighted Dynamic Time Warping (TWDWTW) Algorithm for Analysis of Vegetation Dynamics using Time-Series Vegetation Index Data from Earth Observation Satellites	Dr. Mehul Pandya
  					

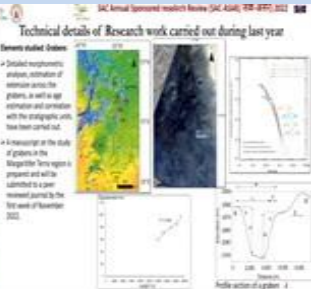
145.	OGP215	Dr. A A Mohamed Hatha	School of Marine Sciences, Cochin University of Science and Technology, Cochin	Modeling of Chlorophyll-a Dynamics of the Eastern Arabian Sea : Biophysical coupling in the Context of change in climate	Dr. Mini Raman
  					

क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
146.	OGP204	Dr. K. Maneesha	National Institute of Oceanography, Visakhapatnam	Integrated Post cyclone impacts on the chlorophyll biomass in the central and Western Bay of Bengal	Dr. Mini Raman & Dr. Rashmi Sharma



147.	OGP199	Dr. Abhik Kundu	Asutosh College, Kolkata	Elucidation of the deformation signatures and fluvial activity near junction of Noachis Terra with Margaritifer and Arabia Terra	Shri. Satadru Bhattacharya & Dr. Ashutosh S Arya
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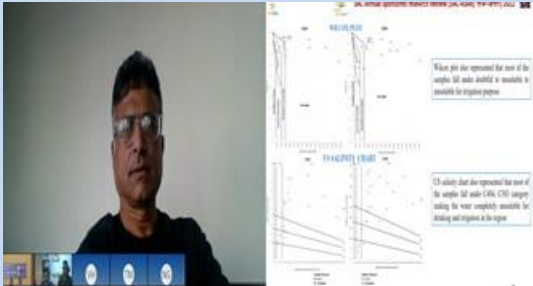





148.	OGP182	Dr. K.N. Kusuma	Pondicherry University, Puducherry	Visible-IR and XRF spectroscopic studies of Lunar Analogues	Dr. Satadru Bhattacharya
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क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
149.	OGP220	Prof. M G Thakkar	Krantiguru Shyamji Krishna Verma Kachchh University, Bhuj-Kachchh	Assimilation of Remote Sensing and Hydrogeological data for aquifer zonation vis a` vis determining Structural and Lithological control over Groundwater Quality and Quantity in Central – Southern Kachchh Mainland, Western India	Ms. Samarpita Sarkar
 					

150.	OGP179	Dr. Nandita Goswami	Gujarat University, Ahmedabad	Design of urban storm water drainage system for Jorhat Town (Assam) and its suburb using GIS and Remote Sensing	Dr. Praveen Kumar Gupta
 					

151.	OGP224	Dr. (Er.). Kishan Singh Rawat	Graphic Era, Dehradun	Appraisal of lake water dynamics and security through high resolution satellite imageries	Dr. Shard Chander
 					

क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
152.	OGP205	Prof. N. Vaani	VIT University, Vellore	Estimation of Crop Water Productivity (CWP) in the major River basins of Tamilnadu using Geospatial technology	Dr. Praveen Kumar Gupta & Shri Karshanbhai N Chaudhari
  					

153.	OGP197	Dr. N. Venkateswaran	Sri Sivasubramaniya Nadar (SSN) College of Engg, Chennai	Development of Fusion Algorithms for Remotely Sensed Satellite Images in Cartographic Applications	Shri Ujjwal Kumar Gupta, Shri Ankur Garg & Dr. Sanid C
   					

सत्र-12 बी: पृथ्वी, समुद्री, वायुमंडलीय, ग्रहीय विज्ञान एवं अनुप्रयोग

अध्यक्ष: डॉ. रश्मि शर्मा, स.नि., एप्सा-एओएसजी

क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
154.	STC0440	Dr. Balachandra Suri	IISc Bangalore	Near-Future Forecasting of Transient Weather Phenomena Using Dynamic Mode Decomposition	Dr. Bipasha Paul Shukla




155.	STC0344	Dr. Sumanta Bagchi	IISc Bangalore	Estimation of vulnerable soil-carbon and hotspots of carbon-efflux across different land-use in India	Dr. B K Bhattacharya
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156.	STC0437	Dr. Bramha Dutt Vishwakarma	IISc Bangalore	Improving the spatial resolution of GRACE TWS for India using remote sensing datasets and modeling approach	Dr. Shard Chander
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क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
157.	STC0269	Dr. Eswar Rajasekaran	IIT Bombay	Modelling and validation of evapotranspiration from India Space borne thermal sensors	Dr. Bimal Kumar Bhattacharya



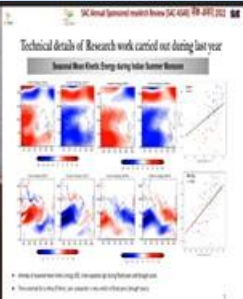

158.	STC0254	Dr. Santanu Banerjee	IIT Bombay	Physico-chemical conditions of formation of bole beds within Deccan basalt for Martian analogue	Dr. Satadru Bhattacharya
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159.	STC0270	Dr. Raaj Ramsankaran	IIT Bombay	Modelling and Mapping of Supraglacial Debris Cover Thickness using UAS and Satellite Remote Sensing Data in selected Glaciers of Western Himalayas	Dr. Sushil Kumar Singh, & Dr. Ish Mohan Bahuguna (Superannuated)
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क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
160.	STC0253	Dr. Shirishkumar S Gedam	IIT Bombay	Modelling of Water Quality Parameters for Coastal and Inland Water Bodies using Data from Multispectral and Hyperspectral Imaging Systems	Dr. Shard Chander
					
161.	STC0267	Dr. Basudev Biswal	IIT Bombay	A flood warning system for entire India-optimal utilization for satellitebased data and development of a computationally efficient flood inundation model	Dr. Amit Kumar Dubey
					
162.	STC0427	Prof. Riddhi Singh	IIT Bombay	A multivariate data assimilation framework to improve drought predictions	Shri Vibhuti Bhushan Jha
					

क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
163.	STC0368	Prof A D Rao	IIT Delhi	Impact of Satellite observations in a coupled system for predicting storm tides and its coastal inundation.	Dr Rashmi Sharma & Shri Anup Kumar Mandal
   					
164.	STC0379	Dr. Sarvesh Kumar Dubey	IIT Delhi	Low Pressure Systems (LPs) and their nonlinear interaction with other scales in atmosphere through the lens of Scale Energetics	Dr. Sukanta Kumar Das & Dr. Randhir Singh
   					
165.	STC0372	Dr. Dhanya C. T.	IIT Delhi	Real-Time Flood Risk Warning Smart System Integrating Information from Satellite and Sensor Products	Dr. Shard Chander
  					

क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
166.	STC0374	Dr. Manabendra Saharia	IIT Delhi	Establishing a coupled Indian Land Data Assimilation System (ILDAS) for identifying hydrologic extremes	Shri Rohit Pradhan





167.	STC0319	Prof. Naren Naik	IIT Kanpur	RTE-optical-tomography based mixed-phase cloud parameter retrieval	Dr. Bipasha Paul Shukla
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रिकॉर्डकर्ता Records By



Shri Naveen Kumar Tripathi

Shri Sambit Kumar Panda

एप्सा EPSA

समूह फोटो- सत्र-12-ए: पृथ्वी, समुद्री, वायुमंडलीय, ग्रहीय विज्ञान एवं अनुप्रयोग



समूह फोटो - सत्र-12 बी: पृथ्वी, समुद्री, वायुमंडलीय, ग्रहीय विज्ञान एवं अनुप्रयोग



ग्यारवाँ दिन - एप्सा - नवंबर 22, 2022 (गुरुवार)

सत्र-12-सी: पृथ्वी, समुद्री, वायुमंडलीय, ग्रहीय विज्ञान और अनुप्रयोग

अध्यक्ष: डॉ. रश्मि शर्मा, स.नि. एप्सा-एओएसजी

Sr. No	Project ID	PI Name	Uni./ Institute	Research Title	SAC Focal Person(s)
168.	STC0412	Prof. Rajiv Sinha	IIT Kanpur	Integrating satellite and UAV remote sensing for Land Surface Temperature (LST) and soil moisture estimations to map crop water stress in an agriculture-dominated Critical Zone Observatory (CZO)	Dr. Mehul R. Pandya & Shri. Manish Chauhan
  					
169.	STC0308	Prof. Anurag Gupta	IIT Kanpur	Biomechanical Aspects of Plant and Root Growth in Microgravity Environments	Dr. Mehul R. Pandya, Dr. Rojalin Tripathy, & Smt. Payal Sharma
   					

क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
170.	STC0413	Prof. Amar Agarwal	IIT Kanpur	Determining the origin of the Simlipal Volcanics: meteoritic Impact vs effusive volcanism	Dr. Satadru Bhattacharya



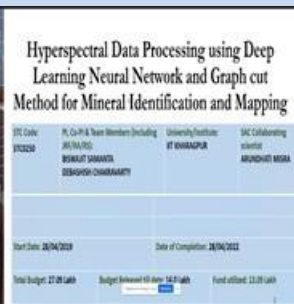


171.	STC0416	Prof. Onkar Dikshit	IIT Kanpur	Development of ISRO Calibration / Validation facility using corner reflectors co-located with low-cost GNSS receivers	Shri Ghanashyam J Doshi & Dr. Shweta Sharma
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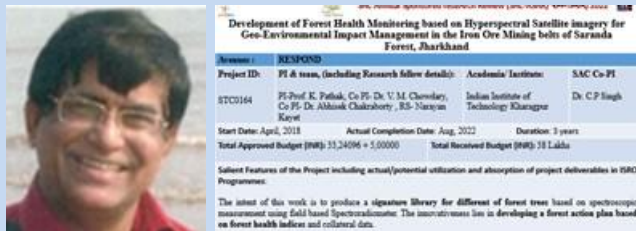

172.	STC0250	Dr. Biswajit Samanta	IIT Kharagpur	Hyperspectral Data Processing using Deep Learning Neural network and Graph cut method for mineral identification and Mapping	Dr. (Smt.) Arundhati Misra (Superannuated)
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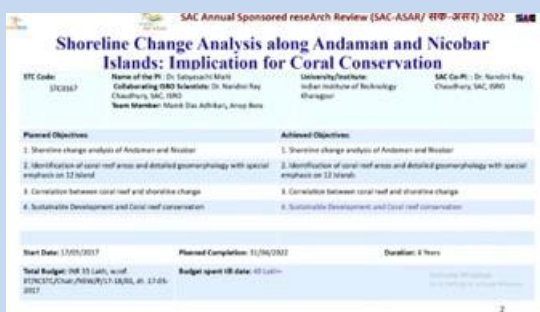

क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
173.	STC0248	Dr. Jayanarayanan Kuttippurath	IIT Kharagpur	Accuracy estimation of INSAT-3D and INSAT-3DR ozone, temperature and water vapor measurements : Application for AIR-Sea Interaction studies	Dr. P K Thapliyal



174.	STC0164	Dr. K Pathak	IIT Kharagpur	Development of forest health monitoring model based on Hyperion data for Geo-Environmental Impact management in the Iron Ore mining belts of Saranda Forest, Jharkhand	Dr. C P Singh
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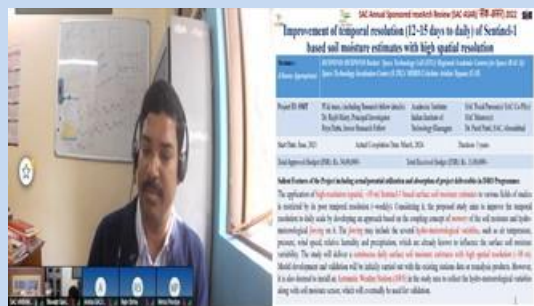
175.	STC0167	Dr. Sabyasachi Maiti	IIT Kharagpur	Shoreline Change Analysis along Andaman and Nicobar Islands: Implication for Coral Conservation	Dr. Nandini Ray Choudhury
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क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
176.	STC0434	Prof. Tutan Ahmed	IIT Kharagpur	Identification of reusable economic indicators using enhanced satellite imagery and multimodal multi-tasking deep learning method	Shri Pankaj Bodani, Dr. Parul D Patel & Dr. Abha Chhabra



177.	STC0333	Dr. Rajib Maity	IIT Kharagpur	Improvement of temporal resolution (~weekly to daily) of Sentinel-1 based high spatial resolution surface soil moisture estimates	Dr. Parul Patel
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178.	STC0382	Dr. Manikandan Mathur	IIT Madras	A Lagrangian framework to define the spatio-temporal requirements of measurement of ocean surface currents from space-borne sensors	Dr. Rashmi Sharma & Dr. Neeraj Agarwal
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क्र.सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
179.	STC0392	Dr. S. A. Sannasiraj	IIT Madras	Wind and Sea-swell spectral data assimilation to improve wind and wave prediction using satellite data	Dr. Rashmi Sharma, Shri Seemanth M & Dr. Smt Suchandra Aich Bhowmick






180.	STC0432	Prof. Arun K. Tangirala	IIT Madras	Physics-based AI-ML models for predicting crop yield at different space-time scales	Dr. Rojalin Tripathy
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सत्र-12-डी: पृथ्वी, समुद्री, वायुमंडलीय, ग्रहीय विज्ञान और अनुप्रयोग

अध्यक्ष: डॉ. रश्मि शर्मा, स.नि. एप्सा-एओएसजी

क्र. सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
181.	STC0404	Dr. Saurabh Vijay	IIT Roorkee	Interlinked seasonal evolution of supraglacial lakes and ice velocity changes of glaciers in Greenland	Dr. Sushil Kumar Singh
 					
182.	STC0317	Dr. R. Balasubramanian	IIT Roorkee	Landslide monitoring, forecasting and mitigation system	Kum Samarpita Sarkar & Dr. Dhani Ram Rajak
 					
183.	STC0286	Dr. Bhalchandra Pujari	SPPU Pune	Data driven modeling of morphology and formation of impact craters in Basalt: A case study of Lonar	Dr. A S Arya & Dr. Satadru Bhattacharya
 					

क्र. सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
184.	STC0401	Dr. Swapnil S. Vyas	SPPU Pune	Trends in the Glacier Recessions from Kanchenjunga National Park (India and Nepal): Studies based on Spatio-temporal variability and Paleoclimate signatures	Dr. Sushil Kumar Singh
 					
185.	RAC-S_047	Dr. Shishir Gaur	IIT BHU, Varanasi	Development of Algorithms for water quality monitoring using ground instrumentation and optical sensors onboard Unmanned Airborne Vehicle	Dr. Shard Chander
 					
186.	YS/PD-IP/2021/343	Dr Dushyant Mahadik	NIT Rourkela	Integrated Information System for Agriculture Monitoring and Crop Insurance	Shri. Shashikant A Sharma, Shri. Pankaj Bodani, & Shri. Ujjwal Gupta
   					

क्र. सं.	परि. आईडी	पीआई नाम	यूनि./संस्थान	अनुसंधान शीर्षक	सैक फोकल व्यक्ति
187.	YS/PD-IP/2021/342	Pratikkumar Parimal Shah	Indian Institute of Information Technology, Vadodara	Safe Ship Navigation	Dr. Suchandra Aich Bhowmick & Smt. Shivani M. Shah






188.	UAY0013	Dr. Ambedkar Dukkupati & R. Venkatesh Babu	IISc Bangalore	Deep learning based ecosystem for aircraft health management using visual and sensor data	Dr. Bipasha Paul Shukla
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रिकॉर्डकर्ता Records By



Shri Darbha Vamsi Phani Krishna

Smt. Aswathy Vijaya Krishna

एप्सा EPSA

समूह फोटो- सत्र-12-सी: पृथ्वी, समुद्री, वायुमंडलीय, ग्रहीय विज्ञान एवं अनुप्रयोग



समूह फोटो-सत्र-12-डी: पृथ्वी, समुद्री, वायुमंडलीय, ग्रहीय विज्ञान एवं अनुप्रयोग





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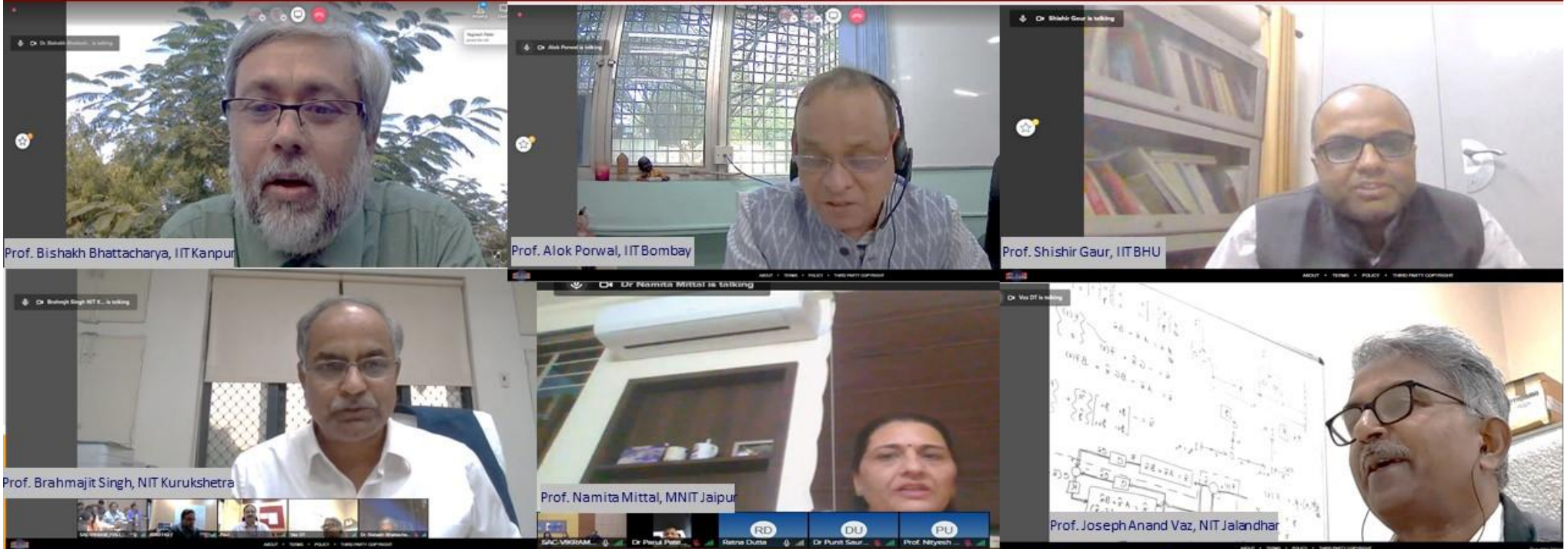
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बाएं से दाएँ → श्री डी के सिंह, श्री सुमितेश सरकार, डॉ.के.के.सूद, श्री देवज्योति धर, श्री आनंद विष्णुप्रसाद पाठक, डॉ. मिलिंद महाजन, श्री सौम्य एस सरकार, डॉ.ची.वे.नरसिंहा राव, डॉ. पारुल पटेल, श्री अपूर्व एन भट्टाचार्य, सुश्री शिल्पा पंड्या, डॉ. रश्मि शर्मा



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पद्मश्री, श्री ए. एस. किरण कुमार, सदस्य अंतरिक्ष आयोग, भारत सरकार और पूर्व इसरो अध्यक्ष द्वारा समापन उद्बोधन



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(अनु.एवं वि.), सैक द्वारा टिप्पणी



Remarks by Shri K S Parikh,
Associate Director (R&D) SAC

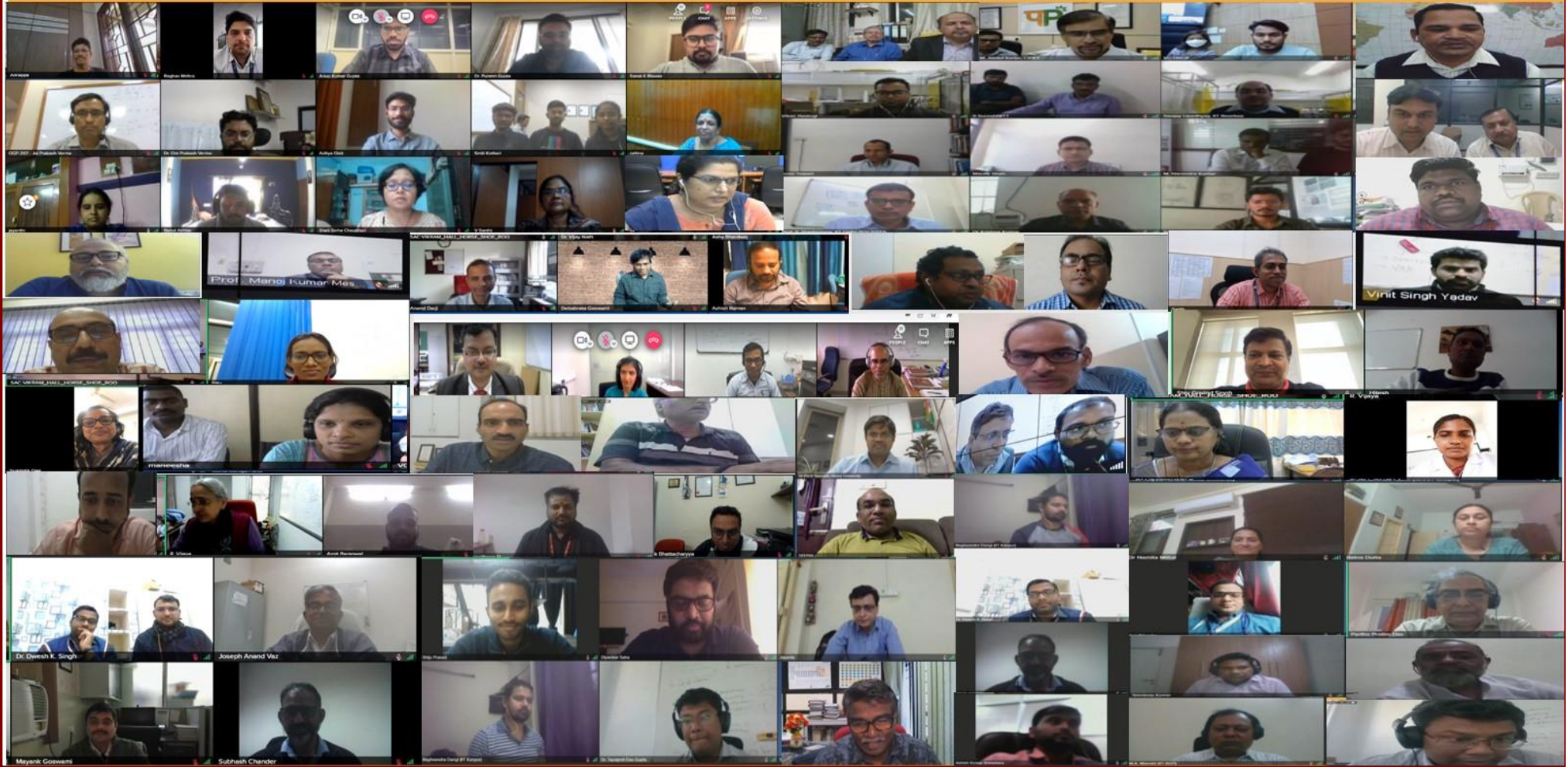


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