

NSM CONCLAVE 2026

Supercomputing with P₄R₄M

from Atoms to Galaxies...

JULY 21-23, 2026

Pune International Centre (PIC), Panchavati, Pashan, Pune - 411008

DAY 1: 21 July 2026

DAY 01	
Time	
1500hrs onwards	INAUGURAL CEREMONY
2000hrs onwards	BANQUET DINNER

DAY 2: 22 July 2026

DAY 02			
Time	Type	Session/Presentation	Coordinator & Contributors
8:30 Onwards		Registration	
0900hrs – 0945hrs		Plenary Talk-1: *Prof. Laxmikant Kale, UIUC, USA (online) (Auditorium)	
0945hrs – 1030hrs	NSM Success Story 1: Indigenous Supercomputing Component Development (Auditorium Online) Chairperson: *Ms. Sunita Verma, MeitY RUDRA servers Trinetra board Cooling Systems AUM Processor *Shri E Magesh, Director General, C-DAC *Shri Sanjay Wandhekar, Centre Head, C-DAC, Pune	NSM Success Story 2: Supercomputing in Biology (Multipurpose Hall) Chairperson: * Dr Dinesh Gupta, ICGEB NSM Platform for Genomics and Drug Discovery *Dr Rajendra Joshi, NSM-Mission Directorate (MD)	
1030hrs-1100hrs		TEA BREAK	
1100hrs – 1230hrs	Session 1: Designing the Engines of Supercomputing (Auditorium) Chairperson: *Dr BS Jagadeesh, NSM-MD *Prof Madhav Desai, IIT Bombay *Shri Atul Bodas, C-DAC, Pune *Shri Neel Gala, InCore Semiconductors	Session 2: From Molecules to Medicine (Multipurpose Hall) Chairperson *Prof. Alok Bhattacharya, Ashoka University *Dr Debasisa Mohanty, NII (Online) *Dr Dinesh Gupta, ICGEB *Dr Uddhaveson Sonavane, C-DAC, Pune *Dr Venkat Palle, Sun Pharma-Baroda	

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1230hrs – 1300hrs	NSM Success Story 3: Indigenous Supercomputing Component Development (contd.) (Auditorium) Chairperson: *Dr Pratishtha Pandey, DST RUDRA-III servers RISC-V processors *Dr SD Sudarsan, Executive Director, C-DAC, Bangalore *Shri Haribabu, C-DAC, Bangalore	NSM Success Story 4: Supercomputing in Earth & Climate (Multipurpose Hall) Chairperson: *Dr Ashok Kaushal, Fmr Associate Director, C-DAC Urban Modelling Flood Forecasting Seismic Data Processing Forest Fire EWS *Dr Manoj Khare, C-DAC, Pune
1300hrs – 1400hrs	LUNCH BREAK	
1400hrs–1430hrs	Plenary Talk-2: Shri Amitesh Kumar Sinha, Additional Secretary, MeitY (Auditorium)	
1430hrs–1500hrs	Plenary Talk-3: Dr Abhay Karandikar, Member (S&T) NITI Aayog (Auditorium)	
1500hrs – 1630hrs	Session 3: Beyond Silicon: The Future of Computing Hybrid-HPC, AI and Quantum (Auditorium) Chairperson: Shri Sudeep Shrivastava, JS, MeitY *Shri Sridhar CV, Mission Director, APSQM *Prof. Sreetosh Goswami, IISc *Prof. Shankar Selvaraja, IISc *Shri Amit Saxena & Dr Anindita Banerjee, C-DAC, Pune *Dr Rajkumar Buyya, Univ of Melbourne, Australia	Session 4: Predicting the Planet (Multipurpose Hall) Chairperson: *Dr Suryachandra RAO, Director, IITM *Prof Ravi Nanjundiah, IISc *Ms. Akshara Kaginalkar, Atria *Dr Saheb Ghosh, ONGC (Online) & Ms. Richa Rastogi, C-DAC, Pune *Dr Amit Kesarkar, NARL-ISRO
1630hrs – 1700hrs	TEA BREAK	
1700hrs – 1745hrs	NSM Success Story 5: Unique Unified Architecture for Faster than Real Time Systems (Auditorium) Chairperson: Dr P K Sinha, Fmr VC IIIT, Naya Raipur MPP Labs *Dr Narendra Karmarkar, Independent Research Professional	NSM Success Story 6: HPC for Astrophysics (Multipurpose Hall) Chairperson: *Prof. Ajit Kembhavi, Fmr Director IUCAA GMRT system *Prof. Jayaram Chengalur, Director, TIFR
1745hrs–1830hrs	Plenary Talk-4: *Dr Ashish Lele, CSIR-NCL (Auditorium)	

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1830hrs – 2000hrs	Session 5: Building the Supercomputing Ecosystem for Tomorrow (Auditorium) Chairperson: *Ms Jaya Panvalkar, Fmr Director, NVIDIA *Shri Prashant Dinde, C-DAC, Pune *Shri S A Kumar, C-DAC, Bangalore * Shri Ankan Biswas, IIT-KGP *Shri Ashish Ranjan, C-DAC, Pune *Shri Jeelani, Director HPC, IITM *Shri Deepak Shapeti, Morphing Machines	Session 6: From Sky Surveys to Simulations: HPC Powering Astrophysics (Multipurpose Hall) Chairperson: *Dr R Srikanth, Director, IUCAA *Prof. Yashwant Gupta, NCRA - TIFR *Prof. Yogesh Wadadekar, NCRA – TIFR *Dr Gaurav Agarwal, DST *Prof. Sanjit Mitra, IUCAA *Prof. Dipanjan Mukherjee, IUCAA *Prof. Nishant Singh, IUCAA
2000hrs Onwards	Gala Dinner	

DAY 3: 23 July 2026

DAY 03			
Time	Type	Session/Presentation	Coordinator & Contributors
0900hrs – 0945hrs		Plenary Talk 5: *Prof. Peter Coveney UCL, UK (Auditorium)	
0945hrs – 1015hrs	NSM Success Story 7: Digital Twins powered by HPC (Multipurpose Hall) Chairperson: Prof. Avinash Kumbhar, CEO, PKC Digital Twin for Chemical Plant Urban Smart Solutions Program Secure Distributed Data Grid *Shri Aditya Sinha, Executive Director, C-DAC Mumbai *Dr S Venkataraman, Director, C R RAO, AIMSCS	NSM Success Story 8: HPC in Cybersecurity (Auditorium) Chairperson: *Dr Prabhakar Krishnan, Amrita University Secure AI systems, AI-driven cybersecurity tools, Privacy-preserving frameworks, Adversarial robustness ecosystems, Secure AI hardware research, HPC-backed evaluation infrastructure *Dr N. Subramanian, Executive Director, SETS	
1015hrs-1045hrs		TEA BREAK	
1045hrs – 1215hrs	Session 7: “Simulating Reality: Digital Twins at Scale” (Multipurpose Hall) Chairperson: *Shri Aditya Sinha, C-DAC Mumbai *Prof NS Rajput, IIT BHU *Dr T Raja, CSIR-NCL *Dr Shree Harsha, Dassault Systems *Shri Rishi Pathak, C-DAC, Pune	Session 8: “Atoms to Applications” (Auditorium) Chairperson: *Prof. Nilmani Mathur, TIFR *Dr Shashank Chaturvedi, IPR *Prof. Phani Motamarri, IISc *Prof. Shridhar Gadre, Prof Emeritus, SPPU *Dr Venkatesh Shenoy, C-DAC, Pune	

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1215hrs-1245hrs	NSM Success Story 9: HPC in Materials and Computational Science (Auditorium) Chairperson: *Prof. Shridhar R. Gadre, SPPU Linear Scaling DFT, Multi Scale Microstructure Simulations and Modelling, Home-grown Quantum Chemistry code, Multi reference Methods with Hybrid QM/MM approaches *Prof. Nishant Nair, IIT Kanpur	NSM Success Story 10: Transition from Sequential to Parallel in HPC-AI: (Multipurpose Hall) Chairperson: *Shri Arvind Kumar, Fmr GC, MeitY The NSM "Go-Parallel" Movement * Shri Ashish Kuvelkar, C-DAC Pune
1300hrs – 1400hrs	LUNCH BREAK	
1400hrs – 1530hrs	Session 9: Securing the Digital Frontier (Auditorium) Chairperson: *Dr Debashish Dutta, Reliance *Dr N Subramanian, SETS *Dr Narendra Nath, NSCS *Shri Rajiv Chetwani, ISRO *Shri Jeeven Saini, OHSL	Session 10: Transforming Talent for the Exascale Era and Beyond (Multipurpose Hall) Chairperson: *Dr Abhay Jere, DEXIT Global Limited *Dr Ganesh Narayanasamy, IBM, USA *Shri Gaur Sundar, C-DAC, Pune *Dr Mohammed Misbahuddin, C-DAC, Bangalore *Shri Jitesh Choudhary, Centre Head, C-DAC, Guwahati
1530hrs – 1600hrs	NSM Success Story 11: Indigenous Supercomputing Software Ecosystem (Multipurpose Hall) Chairperson: *Dr VCV RAO, C-DAC, Pune System Software Stack: Driving High Level APIs *Shri Ashish Ranjan, C-DAC, Pune *Ms. Deepika HV, C-DAC, Bangalore	NSM Success Story 12: R&D and Application Projects (Auditorium) Chairperson: *Dr Srikanth Sastry, JNCASR Bangalore IISc/JNCASR 105 research projects speakers *Prof. Sathish Vadhiyar, IISc Partnering Institutions with PARAM Installations
1600hrs-1730hrs	Session 11: Programming Paradigms for Future Supercomputers (Multipurpose Hall) Chairperson: *Dr Sunil Sherlekar, Sankhya Sutra Labs *Dr N Mangala, C-DAC, Pune *Dr VCV RAO, C-DAC, Pune *Dr Prashant Pansare, Rubiscape *Dr Sarat Sripathy, C-DAC, Pune	Panel Discussion 1: Scaling Application Beyond Tera/Peta (Auditorium) Moderator: *Dr Sarat Chandra Babu, Fmr ED SETS Ms Shweta Das, C-DAC, Pune *Prof. Ram Sharan Singh, IIT-BHU *Prof. Suman Chakrabarty, SN Bose Institute, Kolkata *Shri Samrit Maity, C-DAC, Pune *Dr Sunil Bhagwat Director, IISER Pune

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1700hrs – 1800hrs	Panel Discussion 2: Processors to Systems (Auditorium) Moderators: *Mr Sandeep Wadhwa, Executive Director, C-DAC *Shri Anoop Kumar, C-DAC *Shri Manish Sharma, Intel *Dr Sudhakar Yerneni, AMD * Shri Arvind Bajaj, Bull/Atos * Shri Bibhu Dash, HPE	Panel Discussion 3: HPC Ecosystems (Multipurpose Hall) Moderators: *Mr Naveen Kumar, MeitY *Shri Haribabu, C-DAC Bangalore * Shri Vivek Rai, NVIDIA *Shri Sarjerao Patil, Flex *Shri Sanjay Lodha, Netweb * Shri Reapan Tickoo, Powai Labs
1800hrs – 1830hrs	VALEDICTORY CEREMONY & CONCLAVE CLOSING	
1830hrs -1915hrs	HIGH TEA	