భారతీయ సాంకేతిక విజ్ఞాన సంస్థ హైదరాబాద్
भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

ChemSpirit

2025

CONFERENCE ON CURRENT & FUTURE TRENDS IN CHEMICAL SCIENCES

17th – 19th November 2025

Organized by

DEPARTMENT OF CHEMISTRY, IIT HYDERABAD

Visit our website
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For more information
chem.spirit@chy.iith.ac.in

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	TIME	Monday, 17 November		
17 November 2025 (Day 1)	16th 16:00-18:00 17th 9:00-11:00	**Registration**		
	Venue	**Auditorium 1**	**TIME**	**Auditorium 2**
	9:00-9:10	Welcome by Convenors		
	9:10-9:20	Welcome by Prof. S. Martha		
	9:20-9:30	Address by Honourable Director (Prof. Budaraju Srinivasa Murty)		
	Chair	Koyel Banerjee Ghosh		
	9:30-10:00	M. Carmen Galan (IL1)		
	10:00-10:30	Buddhadeb Chattopadhyay (IL2)		
	10:30-11:00	Takato Mitsudome (IL3)		
	11:00-11:30	**Tea Break**		
	Chair	Chilla Malla Reddy	Chair	Krishna Gavvala
	11:30-12:00	Sebastian Wohlrab (IL4)	11:30-12:00	Bhisma Kumar Patel (IL6)
	12:00-12:30	Alexei V. Demchenko (IL5)	12:00-12:30	D. B. Ramachary(IL7)
	12:30-12:45	Koena Ghosh (OL1)	12:30-13:00	Atsuro Takai (IL8)
	12:45-13:00	Tanmoy Chatterjee (OL2)		
	13:00-15:00	Poster Session and Lunch		
	Chair	Faiz Ahmed Khan	Chair	Sivakumar Vaidyanathan
	15:00-15:20	Rajarshi Samanta (SL1)	15:00-15:20	Rambabu Chegondi (SL5)
	15:20-15:40	Shikha Gandhi (SL2)	15:20-15:40	Ganesh Venkataraman (SL6)
	15:40-16:00	Basudev Sahoo (SL3)	15:40-16:00	Veera Reddy Yatham (SL7)
	16:00-16:20	Aslam Shaikh (SL 4)	16:00-16:20	Pankaj Chauhan (SL8)
	16:20-16:35	Vinoy Kumar (OL3)	16:20-16:35	Noufal Kendoh (OL4)
	16:35-16:50	**Tea Break**		
	Chair	G. Satyanarayana	Chair	Priyadarshi Chakraborty
	16:50-17:20	Kuntal Manna (IL9)	16:50-17:20	Valentin Wittmann (IL12)
	17:20-17:50	Basker Sundararaju (IL10)	17:20-17:40	Pintu Kumar Mandal (SL10)
	17:50-18:20	Amitava Das (IL11)	17:40-18:00	Michaela Wimmerova (SL11)
			18:00-18:20	Dimpy Kalia (SL12)
	18:20-19:30	Cultural Programs and Tea Break		
	19:30-21:30	Dinner		

	TIME	Tuesday, 18 November		
18 November 2025 (Day 2)	**Venue**	**Auditorium 1**	**TIME**	**Auditorium 2**
	Chair	M. Carmen Galan		
	9:00-9:30	M. Christina White (online IL13)		
	9:30-10:00	Pawel Dydio (IL14)		
	10:00-10:30	Jyotirmayee Dash (IL15)		
	10:30-11:00	Debabrata Maiti (IL16)		
	11:00-11:30	**Tea Break**		
	Chair	Bhabani S Mallik	Chair	Ravinder Vadde
	11:30-12:00	Raghavan B. Sunoj (IL17)	11:30-12:00	Matthias Beller (online) (IL18)
	12:00-12:20	Lisa Roy (SL13)	12:00-12:30	Pavel Mykhailiuk (online) (IL19)

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	12:20-12:40	Manoj V. Mane (SL 14)	12:30-13:00	Pazhamalai Anbarasan (IL 20)
	12:40-13:00	Tamas Panda (SL15)		
	13:00-15:00	Poster Session and Lunch		
	Chair	Narahari Sastry	Chair	Shubhas Ghosh & Gangarajula Sudhakar
	15:00-15:30	Santanu Mukherjee (IL 21)	15:00-15:30	Venkata Narayana Kalevaru (IL25)
	15:30-16:00	Akkattu Biju (IL22)	15:30-15:50	Sundaram Singh (SL16)
	16:00-16:30	Joyram Guin (IL 23)	15:50-16:10	Gopal Chandru Senadi (SL17)
	16:30-17:00	Charles Loh (IL 24)	16:10-16:30	Kishor Padala (SL 18)
	17:00-17:15	Shilpi Kushwaha (OL5)	16:30-16:45	Tasneem Parvin (OL7)
	17:15-17:30	Sourav Pradhan (OL6)	16:45-17:00	Y. Prashanthi (OL8)
			17:00-17:15	Dheeraj (Shimadzu) (OL9)
	17:30-17:45	Tea Break		
	Conference Dinner (Venue: Fisherman's warf)			

	TIME	**Wednesday, 19 November**		
19 November 2025 (Day 3)	Venue	**Auditorium 1**	**TIME**	**Auditorium 2**
	Chair	G Prabusankar		
	9:00-9:30	Dattatraya Dethe (IL26)		
	9:30-10:00	Alakesh Bisai (IL27)		
	10:00-10:20	Ch. Raji Reddy (SL19)		
	10.20-10:40	Indranil Chatterjee (SL20)		
	10:40-11:00	Guru Brahamam Ramani (SL21)		
	11:00-11:30	**Tea Break**		
	Chair	Saurabh Kumar Singh		
	11:30-11:50	Sandip Murarka (SL22)		
	11.50-12:10	Srikrishna Bera (SL23)		
	12:10-12:30	Dongari Yadagiri (SL24)		
	12:30-12:45	Md. Lokman (OL10)		
	12:45-13:00	Ajay Singh (OL11)		
	13:00-14:30	Lunch		
	Chair	Tarali Devi		
	14:30 - 14: 45	Takakura (Shimadzu) (OL12)		
	14.45 – 15.00	Subhabrata Mukhopadhyay (Wiley) (OL13)		
	15:00-15:30	Awards/Conclusion		
	15:30-16:00	Vote of thanks by Convenors		

IL = Invited Lecture (27 minutes talk + 3 minutes Q&A)

SL = Short Invited Lecture (17 minutes talk + 3 minutes Q&A)

OL = Invited Oral (12 minutes talk + 3 minutes Q&A)

ChemSpirit 2025

Celebrating science with rhythm, melody, and movement

Date: 17 November, 2025, 6:30-7:30pm

Venue: Convention Centre, Auditorium 1, IIT Hyderabad

Group dance: Bharatnatyam

Solo dance: Rabindra Nritya

Solo dance: Semi classical

Hindustani Classical perfromance

Group dance: Western style

Solo dance: Kuchipudi

Solo dance: Kathak

Coordinated by Suchona Ghosh, Taal Tarang, IIT Hyderabad scholars and students

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	Day1 – 17-11-2025, Auditorium 1
IL1	**Controlling G4 DNA topology with small molecules: towards the development of novel therapeutics** **M. Carmen Galan** School of Chemistry, University of Bristol, Cantock's Close, Bristol, United Kingdom * *e-mail: m.c.galan@bristol.ac.uk*
IL2	**Catalyst Engineering for CH Bond Borylation** **Buddhadeb Chattopadhyay*** Department of Chemistry, Indian Institute of Science Education & Research Pune Dr. Homi Bhabha Road, Pune, Maharashtra, India Email: buddhadeb.c@iiserpune.ac.in
IL3	**Design of High-Performance Metal Nanostructured Catalysts for Sustainable Molecular Transformations** **Takato Mitsudome** (Graduate School of Engineering Science, Osaka University 1-3 Machikaneyama, Toyonaka, Osaka 560-8531, Japan) Phone No.: +81-6-6850-6290 E-mail: mitsudom@cheng.es.osaka-u.ac.jp
IL4	**Catalytic Upgrading of carbon dioxide** **Sebastian Wohlrab** Leibniz-Institut für Katalyse e.V., Rostock Germany Email: sebastian.wohlrab@catalysis.de
IL5	**Hydrogen-Bond-Mediated Aglycone Delivery** **Alexei V. Demchenko**, PhD *Department of Chemistry, Saint Louis University* *3501 Laclede Ave, St. Louis, Missouri 63103, USA*
OL1	**Exploring reactivity of deconjugated butenolides or indoles towards donor-acceptor cyclopropane under catalytic conditions** **Koena Ghosh*[1]** Department of Chemistry, Presidency University, Kolkata 86/1 College Street, Kolkata-700073
OL2	**Developing Green Synthetic Methodologies to Access Marketed Drug, Drug Analogues, and Anti-Cancer AgentsDr. Tanmay Chatterjee** Associate Professor, Department of Chemistry, BITS Pilani, Hyderabad Campus, Jawahar Nagar, Kapra Mandal, Telangana-500078 India.
SL1	**Transition Metal Catalysed Insertion of Diazoquinones** **Rajarshi Samanta**

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	Department of Chemistry, Indian Institute of Technology Kharagpur, India Email: rsamanta@chem.iitkgp.ac.in
SL2	**Beyond the Single Catalyst: Transition Metals in Combined Catalysis** **Shikha Gandhi[1]*** [1] Department of Chemical Sciences, Indian Institute of Science Education and Research Berhampur, Berhampur, Odisha 760010, India.
SL3	**Dual Facets of S_N2' Reaction of *gem*-Dichlorocyclobutenones** **Basudev Sahoo*** Institute School of Chemistry, Indian Institute of Science Education and Research Thiruvananthapuram, Kerala, India. CONTACT: basudev@iisertvm.ac.in
SL4	**Containing Diverse Organic Scaffolds** **Dr. Aslam C. Shaikh*** *Department of Chemistry* *Indian Institute of Technology Ropar, Rupnagar, Punjab, India.*
OL3	**Three-Pronged Strategy: via Directing Group-Assisted Transition metal catalyzed Cascade Annulations** **Dr. Vinaykumar Kanchupalli*** Assistant Professor, School of Chemistry, University of Hyderabad, Hyderabad, 500046
IL9	**Engineering Earth-Abundant Metal Catalysts using Metal-Organic Frameworks for Selective Methane Functionalization** **Kuntal Manna** Indian Institute of Technology Delhi, Department of Chemistry, New Delhi-110016, India
IL10	**Evolution of Co(III)-Catalysis in Asymmetric C-H Bond Functionalizations** Abir Das,[1] Harihara S. Ravishankar,[1] Subramani Kumaran,[1] **Basker Sundararaju*** [1] Department of chemistry, Indian Institute of Technology Kanpur, Kanpur, Uttar Pradesh, India -208016
IL11	**N-Capped Short Peptide-conjugates for Therapeutic Applications** **Amitava Das** Department of Chemical Sciences and Center for Advanced Functional Materials Indian Institute of Science Education and Research (IISER) Kolkata, Mohanpur 741246, West Bengal, India *E-mail: amitava@iiserkol.ac.in*
	Day1 – 17-11-2025, Auditorium 2

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IL6	**Taming Radicals: Strategies for Bond Activation and Functionalization** **Bhisma Kumar Patel** [1] Department of Chemistry, Indian Institute of Technology, IIT Guwahati-781039, INDIA.
IL7	**Catalytic Synthesis of Chiral Swaminathan Ketones and Miltirones** **Dhevalapally B. Ramachary*** Catalysis Laboratory, School of Chemistry, University of Hyderabad, Central University P.O., C. R. Rao Road, Gachibowli, Hyderabad 500 046, Telangana, INDIA (E-mail: ramsc@uohyd.ac.in)
IL8	**π-Conjugated Molecular Assemblies with Dynamic Functions across Nano- to Macro-Scales** **Atsuro TAKAI[1,2]*** [1] National Institute for Materials Science (NIMS), 1-2-1 Sengen, Tsukuba, Ibaraki, Japan. [2] University of Tsukuba, 1-1-1 Tennodai, Tsukuba, Ibaraki, Japan
SL5	**CuH-Catalyzed Enantioselective Alkoxyallylation** **Rambabu Chegondi*** *Organic Synthesis and Process Chemistry Department* *CSIR-Indian Institute of Chemical Technology (CSIR-IICT), Hyderabad 500007, India* *Email: rchegondi@iict.res.in*
SL6	**Nickel(0)-Catalyzed Oxidative Cyclization of π-Systems** **Venkataraman Ganesh[1]***, Sudipta Ghosh[2], Rajesh Chakrabortty[3] [1] Department of Chemistry, Indian Institute of Technology Kharagpur, West Bengal – 721302, India
SL7	**Synthesis of Internal Alkynes via SET, XAT and ART** **Veera Reddy Yatham[1]** [1]School of Chemistry, Indian Institute of Science Education and Research, Thiruvananthapuram 695551, India.
SL8	**Light-/Electricity-/Organocatalysis-Driven Divergent Stereoselective Reactions** **Pankaj Chauhan*** Department of Chemistry, Indian Institute of Technology Jammu, J&K, India
OL4	**Supramolecular Ion Pair Adducts Favours Radical Excited State Cascade Electron Transfer for Chromoselective CO_2 Photoreduction** Kumari Raksha[1], **Noufal Kandoth*[1,2]** [1] Department of Chemical Sciences, Indian Institute of Science Education and Research-IISER Kolkata, Mohanpur, West Bengal, India

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	[2] School Chemical Science, Mahatma Gandhi University, Kottayam, Kerala, India
IL12	**Chemical Tools for Glycobiology** **Valentin Wittmann** Department of Chemistry, University of Konstanz, 78457 Konstanz, Germany.
SL10	**Glycosyl Thiosulfonate-Enabled *Ortho*-Thiolation via the Catellani Strategy: A Modular Synthesis of Polysubstituted Aryl Thioglycosides** **Dr Pintu Kumar Mandal**[1,2*], Zanjila Azeem[1,2] [1] Medicinal & Process Chemistry Division, CSIR-Central Drug Research Institute, Lucknow 226031, India. [2] Academy of Scientific and Innovative Research (AcSIR), Ghaziabad- 201002, India.
SL11	**Molecular Insights into Lectin Architecture and Glycan Specificity in *Photorhabdus* spp.** **Michaela Wimmerova**[1,2*] [1] National Centre for Biomolecular Research, Faculty of Science, Masaryk University, Kotlarska 2, 61137 Brno, Czech Republic [2] Central European Institute of Technology, Masaryk University, Kamenice 5, 625 00 Brno, Czech Republic
SL12	**Chemical Biology of Bacterial c-di-GMP Signaling** **Dr. Dimpy Kalia** *Department of Chemistry* *Indian Institute of Science Education and Research (IISER) Bhopal, India* (dimpy@iiserb.ac.in
	Day 2 – 18-11-2025, Auditorium 1
Online IL13	**M Chritina White**
IL14	**Unlocking Chemical Innovation Through Mechanistic Design and Multicatalysis** **Pawel Dydio** *Yusuf Hamied Department of Chemistry, University of Cambridge, Lensfield Rd, Cambridge CB2 1EW, United Kingdom*

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IL15	**Guanosine at the Crossroads of Chemistry and Biology** **Jyotirmayee Dash*[1]** [1] Indian Association for the Cultivation of Science, Kolkata, School of Chemical Sciences, Jadavpur, 700032, India.
IL16	**Unlocking new chemical space via selective catalysis** **Debabrata Maiti** Department of Chemistry, IIT Bombay, www.dmaiti.com, Email : dmaiti@iitb.ac.in
IL17	**Machine Learning and Generative-AI for Chemical Reactions** **Raghavan B. Sunoj** *Department of Chemistry and* *Centre for Machine Intelligence and Data Science,* *Indian Institute of Technology Bombay, Mumbai 400076.*
SL13	**Theoretical Investigations of Molecular, Supramolecular and Enzyme Catalyzed Organic Transformations: A Density Functional Theory Approach** **Lisa Roy[1,*]** [1] Department of Education, Indian Institute of Technology Kharagpur, Kharagpur 721302, India
SL14	**Probing Ligand Effects through Topographic Steric Mapping: Mechanistic Insights from Computational Analysis** **Dr. Manoj V. Mane** Centre for Nano and Material Sciences, Jain (Deemed-to-be University), Jain Global Campus, Bangalore, Karnataka 562112, India
SL15	**Disorder Engineering in Macromolecular Frameworks for Electrocatalysis Reaction** **Dr. Tamas Panda** Center for clean Environment & Dept. of Chemistry, Vellore Institute of Technology, Vellore, 632014
IL21	**Iridium-Catalyzed Enantioselective C–H Allenylation** **Santanu Mukherjee** Department of Organic Chemistry, Indian Institute of Science, Bangalore 560012 e-mail: sm@iisc.ac.in
IL22	**N-Heterocyclic Carbene-Catalyzed Synthesis of C-N, C-O and N-N Axially Chiral Molecules** **Akkattu T. Biju** Department of Organic Chemistry, Indian Institute of Science, Bangalore-560012, India Email: atbiju@iisc.ac.in
IL23	**Asymmetric N-Heterocyclic Carbene Catalysis via Noncovalent Interaction** **Joyram Guin**

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	School of Chemical Sciences, Indian Association for the Cultivation of Science (IACS) Kolkata – 700032, India Email: ocjg@iacs.res.in
IL24	**Leveraging Non-classical σ-hole based Noncovalent Interactions and Asymmetric Catalysis: Emerging Frontiers in Stereoselective Carbohydrate Synthesis** **Charles C. J. Loh[1]*** [1] UCD School of Chemistry, University College Dublin, Belfield, Dublin 4, Ireland.
OL5	**Supramolecular Materials with Tunable Properties for Advanced Aqueous Separations** **Shilpi Kushwaha** CSIR-Central Salt and Marine Chemicals Research Institute, Bhavnagar, India. shilpik@csmcri.res.in; shilpi.kushwaha@fulbrightmail.org
OL6	**Repurposing Metal-Acylnitrenoids Reactivity: A Formal Remote C–H Functionalization of Carboxylic Acids** **Sourav Pradhan**,[1] Jeonguk Kweon, Manoj Kumar Sahoo, Hoimin Jung, Joon Heo, Yeong Bum Kim, Dongwook Kim, Jung-Woo Park,* and Sukbok Chang*[2] [1]Mahindra University, Hyderabad, India. [2]Institute for Basic Science, Korea Advanced Institute of Science and Technology, Daejeon South Korea.
	Day 2 – 18-11-2025, Auditorium 2
IL18	**Development of Catalysts for Achieving a Sustainable Society: Examples from the Chemical Industry and Energy Technologies** **Matthias Beller[1]** [1] Leibniz-Institut für Katalyse, Albert-Einstein-Str. 29a, 18059 Rostock, Germany. matthias.beller@catalysis.de
IL19	**Saturated *N/O*-heterocycles for medchem** **Pavel K. Mykhailiuk** Enamine Ltd. Chervonotkatska 78, 02094 Kyiv (Ukraine). Email: Pavel.Mykhailiuk@gmail.com
IL20	**Ligand Controlled Chemo- and Stereodivergent Functionalization of C-H bonds with Cyclopropenes** **Pazhamalai Anbarasan** *Department of Chemistry, Indian Institute of Technology Madras, Chennai – 600036*
IL25	**Effect of particle size on the activity of palladium catalysts** **Narayana Kalevaru*,** Sebastian Wohlrab

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	Leibniz Institute for Catalysis (LIKAT), Albert-Einstein-Str. 29a, 18059 Rostock, Germany
SL16	**Photo-Triggered Synthesis of Heterocyclic Compounds Via C-S and C-N Bond Formation** **Sundaram Singh** Department of Chemistry, IIT(BHU), Varanasi-221005 sundaram.apc@itbhu.ac.in
SL17	**Harnessing the Versatile Reactivity of α-Aminonitriles: A Pathway to Value-Added Molecules** **Gopal Chandru Senadi**[1]*, Swetha Sathyendran[1], Vikraman Ganesh Moorthi[1] [1] Green and Sustainable Synthesis Laboratory, Department of Chemistry, SRM Institute of Science and Technology, Kattankulathur, Chennai, Tamil Nadu, India.
SL18	**DMSO Beyond a Solvent: Sustainable Pathways to Heterocycles and Sulfoxides** **[1]Dr.Kishor Padala** [1]Department of Chemistry, Central Tribal University of Andhra Pradesh, Vizianagaram, Andhra Pradesh, India, 535003.
OL7	**Exploration of Cyclic Enamines through Pot, Atom, and Step Economic Strategies: A Sustainable Route to Bioactive Hybrid Heterocycles** **Tasneem Parvin**[1] [1] Department of Chemical Science and Technology, National Institute of Technology Patna, Ashok Rajpath, Patna-800005, Bihar, India
OL8	**Synthesis and Characterization of Polymer nanocomposites for biological and photocatalytic activities** **Y.Prashanthi**[1,*], P.Uday Prakash[1] [1] Department of Chemistry, Mahatma Gandhi University, Nalgonda, Telangana, India
	Day3 – 19-11-2025, Auditorium 1
IL26	**Harnessing Synthetic Innovation for Complex Natural Products and Therapeutic Discovery** **Dattatraya H. Dethe** *Department of Chemistry, Indian Institute of Technology Kanpur, UP* (Email: ddethe@iitk.ac.in)

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IL27	**Total Synthesis of Biologically Active Complex Alkaloids** **Alakesh Bisai** *Department of Chemical Sciences, IISER Kolkata, Mohanpur, WB, INDIA* e-mail: alakesh@iiserkol.ac.in
SL19	**Cascade Functionalization/Annulation Approaches for the Assembly of Fused-Heterocycles** **Chada Raji Reddy*** *Department of Organic Synthesis & Process Chemistry* *CSIR-Indian Institute of Chemical Technology* (E-mail: rajireddy@iict.res.in
SL20	**Light-Camera-Action: Shining Visible Light on Hantzsch Ester** **Indranil Chatterjee*** Indian Institute of Technology Ropar, Rupnagar, Punjab – 140001, India (*Email: indranil.chatterjee@iitrpr.ac.in*)
SL21	**Exploring the Reactivity of Alkynyl Hydrazone and Diazo Carboxylates for the Synthesis of Diverse Scaffolds** **Guru Brahamam Ramani[1]*** [1]Department of Chemistry, Indian Institute of Technology Jammu, NH-44, PO Nagrota, Jagti, Jammu and Kashmir, 181221, India
SL 22	**Two Tales of C–H Functionalization** **Sandip Murarka*** Department of Chemistry, Indian Institute of Technology Jodhpur, Rajasthan. E-mail: sandipmurarka@iitj.ac.in
SL23	**Taming Alkyl Boronic Esters in Cross-Couplings via Amino Radical Transfer (ART)** **Srikrishna Bera** Indian Institute of Technology Tirupati, Tirupati, India.
SL 24	**Palladium-Catalyzed Site-Selective C–H Functionalization of Arenes(Hetero), Alkenes via a Cross-Coupling Approach** **Dongari Yadagiri[1]*** [1]Laboratory of Organic Synthesis and Catalysis, Department of Chemistry Indian Institute of Technology, Roorkee, Uttarakhand-247667, India. *E-mail: yadagiri.dongari@cy.iitr.ac.in
OL10	**Rational Design and Green Synthetic Paradigms for the Synthesis of Substituted and Fused Thiazole Derivatives** **Lokman H. Choudhury[1,*]** *[1] Department of Chemistry, Indian Institute of Technology Patna, Bihta, Patna-801106, INDIA*
OL11	**Transitioning from Batch chemistry to Flow and Digitally Programmed Chemical Synthesis** **Ajay K Singh** CSIR-Indian Institute of Chemical Technology, Hyderabad

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