



Goa University

School of Chemical Sciences

Report on Special Guest Talk: “When Gold Turns Black: Nanochemistry for a Sustainable Future” by Prof. Vivek Polshettiwar, TIFR Mumbai

The Chemistry Department Faculty and Alumni Association (CDFAA), in association with the School of Chemical Sciences (SCS), Goa University, organized a Special Guest Talk titled “**When Gold Turns Black: Nanochemistry for a Sustainable Future**” by **Prof. Vivek Polshettiwar, Tata Institute of Fundamental Research (TIFR), Mumbai**. The talk was held on Friday, 1st October 2026, at 3:00 p.m. at the Chemistry Auditorium, School of Chemical Sciences, Goa University. The programme began with a warm welcome to Prof. Vivek Polshettiwar by the President of CDFAA, Prof. V. S. Nadkarni.

The talk was attended by faculty members and M.Sc. Chemistry students from Part I and Part II of the School of Chemical Sciences, as well as faculty members and students from other schools of Goa University and various colleges across Goa. The programme was attended by approximately 170 participants.

In his engaging and informative lecture, Prof. Polshettiwar discussed the fascinating properties and applications of “Black Gold” in catalysis. He explained how black gold nanomaterials can be utilized for CO₂ conversion into useful fuels, highlighting their potential in addressing challenges related to climate change and sustainable energy. Hydrogenation and upcycling of plastic waste using black gold catalyst was conferred. He also discussed the design of efficient photocatalysts and the role of localized surface plasmon resonance in enhancing catalytic activity. Another important aspect of the lecture was the tuning of light absorption properties in black gold nanomaterials to improve their performance in catalytic processes.



The talk provided valuable insights into the synthesis, properties, and applications of nanomaterials for catalysis. The participants greatly benefited from Prof. Polshettiwar's expertise and gained knowledge about how advanced nanomaterials can be designed and utilized to address major environmental challenges, including pollution, plastic waste, and climate change.

Overall, the Special Guest Talk was highly informative and inspiring, providing the participants with a deeper understanding of the potential of nanochemistry and black gold catalysts in developing innovative and sustainable solutions for the future.

Attached herewith

1. Notice,
2. Brochure,
3. Attendance
4. Geo-tag photos



Dr. Rohan Keshav Kunkalekar
Convener



Prof. V. S. Nadkarni
President, CDFAA



Prof. V. M. S. Verenkar
Dean, SCS





Alumni SCS <cdfaa@unigoa.ac.in>

Invitation for Special Guest Talk: "When Gold Turns Black: Nanochemistry for a Sustainable Future" by Prof. Vivek Polshettiwar, TIFR Mumbai

3 messages

Alumni SCS <cdfaa@unigoa.ac.in>
To: chemistry <chemistry@unigoa.ac.in>

Mon, Sep 28, 2026 at 10:39 PM

Dear All,

The School of Chemical Sciences, Goa University, in association with the Chemistry Department Faculty and Alumni Association (CDFAA), is pleased to organize a Special Guest Talk by eminent scientist **Prof. Vivek Polshettiwar** from **Tata Institute of Fundamental Research (TIFR), Mumbai**.

Special Guest Talk

Title: "**When Gold Turns Black: Nanochemistry for a Sustainable Future**"Date: **1st October 2026**Time: **3:00 PM**

Venue: LH-1, School of Chemical Sciences, Goa University

Prof. Vivek Polshettiwar is a distinguished scientist whose research lies at the interface of nanomaterials and catalysis, with particular emphasis on solar energy harvesting and the conversion of CO₂ into fuels and valuable chemicals. He is the inventor of Dendritic Fibrous Nanosilica (DFNS) and plasmonic Black Gold.

His research encompasses materials chemistry, plasmonics, defect engineering, and strong metal-support interactions, providing innovative design principles for next-generation catalysts aimed at addressing critical energy and environmental challenges. He has published nearly 150 peer-reviewed research articles and holds 17 national and international patents and patent applications.

We cordially invite you to attend this insightful talk and interact with Prof. Polshettiwar.

We look forward to your enthusiastic participation.

With regards,

Dr. Rohan

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**Chemistry Department Faculty & Alumni Association (CDFAA),
School of Chemical Sciences,
Goa University, Taleigao Plateau
Goa – 403 206, India**



Guest Talk Prof. Vivek.pdf
253K

Alumni SCS <cdfaa@unigoa.ac.in>
To: "Chemistry Ph.D Group" <phdchemistry@unigoa.ac.in>

Mon, Sep 28, 2026 at 10:41 PM

[Quoted text hidden]



Guest Talk Prof. Vivek.pdf
253K

Alumni SCS <cdfaa@unigoa.ac.in>
To: "SPAS Ph. D. Scholars" <spas-ph-d-scholars@unigoa.ac.in>, Sudhir Cherukulappurath <sudhir.c@unigoa.ac.in>, "Dr. Rajesh Kumar Shankar Hyam" <rajesh.hyam@unigoa.ac.in>, "Dr. Venkatesha Rama Hathwar" <vhathwar@unigoa.ac.in>

Mon, Sep 28, 2026 at 10:43 PM

----- Forwarded message -----

From: **Alumni SCS** <cdfaa@unigoa.ac.in>

Date: Mon, Sep 28, 2026 at 10:39 PM

Subject: Invitation for Special Guest Talk: "When Gold Turns Black: Nanochemistry for a Sustainable Future" by Prof. Vivek Polshettiwar, TIFR Mumbai

To: chemistry <chemistry@unigoa.ac.in>

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Guest Talk Prof. Vivek.pdf

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GOA UNIVERSITY
SCHOOL OF CHEMICAL SCIENCES (SCS)
&
CHEMISTRY DEPARTMENT FACULTY AND ALUMNI
ASSOCIATION (CDFAA)



Organizes a Guest Talk by



Prof. Vivek Polshettiwar
Tata Institute of Fundamental Research (TIFR),
Mumbai

On the Topic

When Gold Turns Black: Nanochemistry for a Sustainable Future

July
17

Date: 1st October 2026



Time: 3:00 PM

Venue: LH-1, SCS

ALL ARE CORDIALLY INVITED !!!

Dr. Rohan K. Kunkalekar
Coordinator

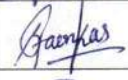
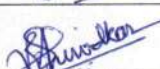
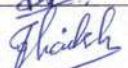
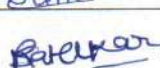
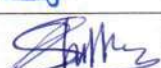
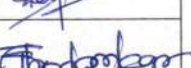
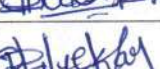
Prof. V. S. Nadkarni
President, CDFAA

Prof. V. M. S. Verenkar
Dean, SCS

Goa University
School of Chemical Sciences (SCS) & Chemistry Department Faculty & Alumni
Association (CDFAA)

Special Guest Talk by: **Prof. Vivek Polshettiwar**, TIFR-Mumbai
Topic: **"When Gold Turns Black: Nanochemistry for a Sustainable Future"**
Venue: School of Chemical Sciences, Goa University, Goa 403206 INDIA
Thursday, 1st October 2026

ATTENDANCE

Sr.No.	NAME	ADDRESS	SIGNATURE
01	Vedant Alias Chanchakant Pibnkar	Mapusa, Goa	
02	Sidraj Sandesh Gaonkar	canalona, goa	
03	Namdev Mukendra Parab	Shironda, Goa	
04	Karissa Rachel Dsilva	cdva, Goa	
05	Valanka Zuena Dsilva	Majorda, Goa	
06	Ankita Naresh Kamble	Perunem, Goa	
07	Danya Ainkar	Curtorim, Goa	
08	Saloni Gauns	Sankhalim, Goa	
09	Khushi P. Kale	Valpoi, Goa	
10	Aniksha A. Desai	Valpoi Goa	
11	Ravisha M. Shiradkar	Margao Goa	
12.	Tamanna K. Shaikh	Mapusa Goa	
13.	Saishma P. Naik	Porvorim, Goa	
14.	Richa R. Satelkar	Arpora, Goa	
15	Sneha A. Singbal.	Margao, Goa	
16	Siya S. Naik	margao, goa	
17	Dinya P. Shillcar	Valpoi, Goa	
18	Sanjana G. Mandrekar.	Bicholim, Goa	
19	Kalyani U. Sangelkar	Nerul - Goa	
20	ISHIKA S. CHODANKAR	SAUGAO - GOA	
21	Ritusha J. Palyekar	Calangute, Goa	

22	Sanika Parab	Bicholim Goa	~~Anab~~
23	Akangsha A Sawant	Valpoi Goa	~~Sawant~~
24	Sanuja Kumari	Majorda, Goa	~~R.~~
25	Shrinidhi Honawarkar	Vasco, Goa.	~~Kui~~
26	Radhika Jadhav	Margao Goa	~~Kadkar~~
27	Pooja Akash Jagdekar	Ponda, Goa	~~Atagelkar~~
28	Mayuri A. Gaonkar	Govt College Khandola Corlim - Goa	~~May~~
29	Aayush D. Khedekar	Govt College Khandola Mardol - Goa	~~Aayush---~~
30	Durva D. Gaware	Govt College Khandola Amona - Goa	~~Gaware~~
31	Irfan K. Bokre	Govt College Khandola Valpoi - Goa	~~Bokre~~
32	Shashank Kuwalekar	Govt College Khandola Ponda - Goa	~~R.S.~~
33	Devan P. Vaigankar	Govt College, Khandola Mollem - Goa	~~Dev~~
34	Dr. Jyoti V. Sawant	Govt College of Arts Science & Commerce Khandola	~~Jt~~
35	Ashwini A. Parab	Govt College Khandola Bicholim Goa	~~Parab~~
36	Shraddha Chodankar	Govt College, Khandola Marcel, Goa	~~Shraddha~~
37	Vignesh Haldankar	"	~~VHaldankar~~
38	Shreya Malik	"	~~Shreya~~
39	Shraddha Awasthi	"	~~Awasthi~~
40	Sugash Vark	"	~~Sugash~~
41	Ankita Thakur	Margao, Goa	~~Thakur~~
42	Lipika Das	Vasco, Goa	~~Lipika~~
43	Vishaka V. Kolambkar	"	~~Vishaka~~
44	Resha H. Haidan	Margao, Goa	~~Resha~~
45	Alfina Livia Rodrigues	" "	~~Rodrigues~~
46	Riya Datta Shirwadkar	Verem, Goa	~~Riya~~
47	Pravin Gaonkar	SCS	~~Pravin~~
48	Kanti Mayankar	SCS, GU	~~Kanti~~
49	Kanvi Mayankar	SCS, GU	~~Kanvi~~

50	Manjusha M. Gaonkar	SCS, GU	Mkan
51	Ria Colaco	SCS, GU	Risley
52	Prashant Gaonkar	SCS, GU	Rif
53	Sauresha S. Shikgaonkar	SCS, GU	Farh.
54	SAMANTHA DA COSTA	SCS, GU	Costa
55	Manasi Uprekar	SCS, GU	MUprekar
56	Ms. Upma Gaonkar	SCS, GU	Gaonkar
57	Samidha S. Nasirvekar	SCS, GU	Samidha
58	Anuja Naik	SCS, GU	Anuja
59	Pritesh P. Khobarekar	SCS, GU	Pr
60	Apetsha H. Naik	SCS, GU	Apetsha
61	Sonam Kumari	SCS, GU	Sonam
62	Pranav Valvaikar	SCS, GU	Pranav
63	Jerris Dias	Carmel College of Arts, Science & Commerce Nuvem	Jerris
64	Kirti Ganiger	Carmel College Nuvem	Kirti
65	Suman Ray	"	Suman
66	Mehak Shaikh	"	Mehak
67	Manisha Das	"	Manisha
68	Prachi Naik	"	Prachi
69	Natasha Da Costa	PES College, Farmagudi	Natasha
70	Sonali S. Gaonkar	SCS, GU	Sonali
71	Siddhi K. Salgaonkar	SCS, GU	Siddhi
72	Milagrima D'Souza	SCS, GU	Milagrima
73	Medha M. Gaude	SCS, GU	Medha
74	Deepti K. Velip	SCS, GU	Deepti
75	Greela Oliveira	SCS, Goa University	Greela
76	Madhuri M. Gaikwad	SCS, Goa University	Madhuri
77	Lygia E D'Souza	SCS, Goa University	Lygia

48	Ganga Yesodharan	SCS, Goa-University	<u>Ganga</u>
49	Gauravi Chari	SCS, Goa University	<u>Chari</u>
80	Adity Dias	SCS, Goa University	<u>Dias</u>
81	Adenia Pereira	SCS, Goa University	<u>Pereira</u>
82	Megan Almeida	SCS, Goa University	<u>Almeida</u>
83	Disha Mandrekar	SCS, Goa University	<u>Disha</u>
84	Priyanka S. Modak	SCS, Goa University	<u>P</u>
85	Pavan Kumar Patil	SCS, Goa University	<u>Patil</u>
86	Raneet Gawde	SCS, Goa University	<u>Raneet</u>
87	Vaishnavi Naiti	" "	<u>Naiti</u>
88	Shweta Kale	"	<u>Kale</u>
89	Vaibhavi Shetye	"	<u>Shetye</u>
90	Anjelia Gomez	"	<u>Gomez</u>
91	Sanika Kolkupte	} Physical, SCS	<u>Sanika</u>
92	Gouresh Mandrekar		<u>Mandrekar</u>
93	Avez Khan	} Inorganic, SCS	<u>Avez</u>
94	Deepak Sawasheri		<u>Deepak</u>
95	Suhani Kunkolienkar		<u>Suhani</u>
96	Naiyara Sheikh		<u>Naiyara</u>
97	Anantay Polhet	} Inorganic physical SCS	<u>Anantay</u>
98	Ishwari Narvekar		<u>Ishwari</u>
99	Neha Pandey		<u>Neha</u>
100	Pravishi Naik		<u>Pravishi</u>
101	Vaibhavi Parab	} SCS	<u>Parab</u>
102	Kutra Desai		<u>Desai</u>
103	Ostira Dsouza		<u>Ostira</u>
104	Nehal Fadte		<u>Nehal</u>
105	Swarali Mhalani		<u>Mhalani</u>
	Karuna Tekkar	"	<u>Karuna</u>

106	Pranita Sulkar	} Physical Chemistry	~~Subbar~~
107	Mitali Bandodkar		~~Bandodkar~~
108	Chiquita De Oliveira		~~De~~
109	Diletta Rebello		~~Rebello~~
110	Rajishwari T. Ganes	Org Chem	~~Banerjee~~
111	Ermita Vaidya	Phy Chem	~~Banerjee~~
112	Sejal Kerkar	Ana "	~~Kerkar~~
113	Saanvi Gaonkar	Ino "	~~Gaonkar~~
114	Sanisha Borkar	Inorganic Chem.	~~Borkar~~
115	Sanjana Chodankar	"	~~Chodankar~~
116	Shreya Naik	"	~~Naik~~
117	Tanavi Gaonkar	"	~~Gaonkar~~
118	Kalpita Gaude	"	~~Gaude~~
119	Prajakta Gorekar	Physical Chem	~~Gorekar~~
120	Vetia Miranda	"	~~Miranda~~
121	Sudip Udep	Biochem	~~Udep~~
122	Namrata Kumari	SCS, Goa University	~~Kumari~~
123	Shubhlaxmi K. Naik	SCS, Goa University	~~Naik~~
124	Shradha R. Thaneekar	SCS-Goa University	~~Thaneekar~~
125	Vishant Gaonkar	SCS, Goa University	~~Gaonkar~~
126	VIGNESH R NAIDU	SCS, GOA UNIVERSITY	~~Naidu~~
127	Smey A. Fal Desai	SCS, Goa University	~~Desai~~
128	Shreyas S. Ainkar	SCS, Goa University	~~Ainkar~~
129	Rohan K. Kunteekar	SCS, Goa University	~~Kunteekar~~
130	Vinod Mandekar	SCS, Goa University	~~Mandekar~~
131	Rupesh A Kunteekar	"	~~Kunteekar~~
132	Pranay Morayh	—A—	~~Morayh~~
133	Rahul Kerkar	SCS, Goa University	~~Kerkar~~

134	Ketan S. M.	SCS, Goa Uni	<u>Em</u>
135	Pragya S. V.	SV GV	<u>Janita</u>
136	Kedar U. Navvabe	SCS	<u>Navvabe</u>
137	V. M. S. Vrenkar	SCS	<u>W</u>
138	Dr. Luann R. Dsouza	SCS	<u>Luann</u>
139	Dr. Nitesh Joshi	SCS	<u>Hahn</u>
140	DR. HARI K. KADAM	SCS	<u>H</u>
141	Dr. Shrikant R. Naik	SCS	<u>SP</u>
142	Namrata K. Gaonkar	SCS	<u>Gaonkar</u>
143	Krishna S. Naik	SCS	<u>Naik</u>
144	Rabia Aga	SCS	<u>Rabia</u>
145	Prisha Naik	SCS	<u>Prisha</u>
146	Isha Naik	SCS	<u>Naik</u>
147	Tripti Navvabe	SCS	<u>Navvabe</u>
148	Kedar Gaonkar	SCS	<u>K</u>
149	Mudra S. Naik	SCS	<u>Naik</u>
150	GOPESH V. SAIL	SCS	<u>Sail</u>
151	Priyati Velip	SCS	<u>Priyati</u>
152	Khushi Sainda	SCS	<u>Sainda</u>
153	Mayusha D. Phondkar	SCS	<u>Phondkar</u>
154	Debahuti Nath	SCS	<u>Nath</u>
155	Simran F. Shaikh	SCS	<u>Simran</u>
156	Sakshi PD	SCS	<u>SUPRESEY</u>
157	Saloni Raul	SCS	<u>SSK</u>
158	Janavi Gaonkar	SCS	<u>Ja</u>
159	Khushi Rajendra Gad	SCS	<u>Rad</u>
160	Shayena S. Chari	SCS	<u>Chari</u>
161	Disa Vaidya	SCS	<u>D</u>

