

# Venkata Amarnadh Surapaneni

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## EDUCATION

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**Ph.D. in Natural Sciences**, grade: 1.0/1.0<sup>§</sup>, *magna cum laude* Jun 2017–Nov 2020

University of Freiburg, Freiburg im Breisgau, Germany

Ontogeny and morphology of plant cuticular ridges, and their effect on insect attachment: experiments, theory and biomimetics

*Advisor: Prof. Thomas Speck*

**M.Tech in Nanotechnology**, grade: 8.36/10<sup>§</sup> Jul 2012–2014

National Institute of Technology Karnataka, Surathkal, India

Investigation of the effect of microscale surface roughness on the superhydrophobicity of anodized aluminium surfaces

*Advisor: Prof. Narayan Prabhu*

**B.Tech in Mechanical Engineering**, grade: 79.45/100<sup>§</sup> Sep 2005–Apr 2009

Acharya Nagarjuna University, Guntur, India

Stress analysis of railway wagon wheels, with South Central Railway, India

*Advisor: Prof. Kantha Prasad*

## RESEARCH INTERESTS/ KEYWORDS

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Biomechanics of plants and animals

Functional morphology

Experimental micromechanics

Biological materials

Sustainable biomimetics

## TECHNICAL TOOLS AND SKILLS

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Scanning electron microscopy

Confocal laser scanning microscopy

Multiscale mechanical testing

3D printing

Metadata management

R, Python (basic)

Scientific communication tools

Solidworks (for design and prototyping)

Cross-Disciplinary Innovation (Biology/Physics/Engineering)

Scientific Documentation & Reporting

## RESEARCH EXPERIENCE

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### Visiting Academic

Apr–Jun 2024

Trinity College Dublin, Dublin, Ireland

- Conducted field and lab research on fish filter-feeding systems with applications to fluid flow
- Used particle image velocimetry to understand flow around real and 3D-printed prototypes of basking shark rakers.

### Postdoc

Feb 2022–Apr 2024

City University of Hong Kong, Kowloon, Hong Kong

- Studied materials and mechanics of shark filters and bird heads as models for bioinspiration
- Utilized high-resolution microscopy and mechanical testing to comprehend the fracture toughness of filter structures in large filter-feeding sharks
- Currently conducting microscale morphological characterization and dynamic testing to explore the impact behavior of bird casques

### Postdoc

Jul–Sep 2021

Max Planck Institute of Colloids and Interfaces, Potsdam, Germany

- Investigated nanostructural architecture and mechanics of bright blue skin in stingrays
- Discovered a new colloidal system of nanocrystals responsible for the structural blue color
- Conducted 2D FFT to explore the architectural and physical basis of blue color

### Research Fellow

Sep 2010–Oct 2011

Indian Institute of Technology Bombay, Mumbai, India

- Played a key role in setting up the Mechanics of Materials lab
- Assembled and tested microscale tensile testing equipment for small-scale fracture and fatigue testing of nanocrystalline MEMS samples
- Conducted assembly and testing of Split-Hopkinson bar setup for dynamic compression experiments on nanocrystalline materials

## TEACHING EXPERIENCE

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**Assistant Professor**, Department of Mechanical Engineering

Dec 2015–May 2017

VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad, India

**Assistant Professor**, Department of Mechanical Engineering

Dec 2014–Dec 2015

Mahatma Gandhi Institute of Technology, Hyderabad, India

**Lecturer**, Department of Mechanical Engineering

Sep 2009–Mar 2010

Bapatla Engineering College, Bapatla, India

**Subjects taught:** Engineering Drawing, Engineering Mechanics, Mechanics of Materials

## OTHER PROJECTS AND TRAINING

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EGO Elektro Gerätebau GmbH, Oberderdingen, Germany

Apr 2019

Evaluation of the potential for a functional principle of adhesion/anti-adhesion in plant-insect interactions into technical household products

*Advisor: Mr. Uwe Schaumann*

University of Cambridge, Cambridge, United Kingdom

Apr 2018, Feb 2019

Training in the use of genetic techniques to manipulate surface morphology in plant leaves

Advisor: Prof. Beverley Glover

Adolphe Merkle Institute, Fribourg, Switzerland

Sep 2018

Training and experiments on atomic force microscopy of plant leaf microstructures

Advisor: Prof. Nico Bruns

Indian Institute of Technology Madras, Chennai, India

May-Jul 2013

Synthesis and characterization of TiO<sub>2</sub> nanotubes and TiO<sub>2</sub>-graphene composites

Advisor: Prof. Somnath Chanda Roy

MSME-Tool room, Central Institute of Tool Design, Hyderabad, India

May-Aug 2009

Training on "Mechanical CADD" tools

## **PUBLICATIONS** § shared first author, \* corresponding author

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Li T, Schindler M, Paskin M, **Surapaneni VA**, Scott E, Hauert S, Payne N, Cade DE, Goldbogen JA, Mollen FH, Baum D, Hanna S, Dean MN (2025) Functional models from limited data: A parametric and multimodal approach to anatomy and 3D kinematics of feeding in basking sharks (*Cetorhinus maximus*). *The Anatomical Record*, 1–24. doi: 10.1002/ar.25693

**Surapaneni VA**, Flaum B, Schindler M, Hayat K, Wölfer J, Baum D, Hu R, Kong TF, Doube M, Dean MN (2025) The helmeted hornbill casque is reinforced by a bundle of exceptionally thick, rod-like trabeculae. *Annals of the New York Academy of Sciences*, 1544, 1, 78–91. doi: 10.1111/nyas.15254

Blumer M<sup>§</sup>, **Surapaneni VA**<sup>§</sup>, Ciecierska-Holmes J, Redl S, Pechriggl EJ, Mollen F, Dean M (2024) Intermediate filaments spatially organize intracellular nanostructures to produce the bright structural blue of ribbontail stingrays across ontogeny. *Frontiers in Cell and Developmental Biology*, 12:1393237. doi: 10.3389/fcell.2024.1393237

**Surapaneni VA**<sup>\*§</sup>, Blumer MJ<sup>§</sup>, Tadayon K, Mclvor AJ, Redl S, Honis HR, Mollen FH, Amini S, Dean MN<sup>\*</sup> (2024) Ribbontail stingray skin employs a core-shell photonic glass ultrastructure to make blue structural color. *Advanced Optical Materials*, 2301909. doi: 10.1002/adom.202301909

**Surapaneni VA**<sup>\*</sup>, Schindler M, de Faria L, Ziege R, Bidan C, Mollen F, Amini S, Hanna S, Dean M<sup>\*</sup> (2022) Groovy and gnarly: Surface wrinkles as a multifunctional motif for terrestrial and marine environments. *Integrative and Comparative Biology*, 62:749-761. doi: 10.1093/icb/icac079 (Invited)

**Surapaneni VA**<sup>\*</sup>, Aust T, Speck T, Thielen M (2021) Polarity in cuticular ridge development and insect attachment on leaf surfaces of *Schismatoglottis calyptrata*. *Beilstein Journal of Nanotechnology*, 12, 1326–1338. doi: 10.3762/bjnano.12.98

**Surapaneni VA**<sup>\*</sup>, Bold G, Speck T, Thielen M (2020) Spatiotemporal development of cuticular ridges on leaf surfaces of *Hevea brasiliensis* alters insect attachment. *Royal Society Open Science*, 7:201319. doi: 10.1098/rsos.201319

Bergmann JB, Maotsou D\*, **Surapaneni VA**, Thielen M, Speck T, Wilts BD\*, Steiner U\* (2020) Polymerization-induced wrinkled surfaces with controlled topography as slippery surfaces for Colorado potato beetles. *Advanced Materials Interfaces*, 7:2000129. doi: 10.1002/admi.202000129

Kumar C§, Palacios A§, **Surapaneni VA**, Bold G, Thielen M, Licht E, Higham TE, Speck T\*, Le Houérou V (2018) Replicating the complexity of natural surfaces: technique validation and applications for biomimetics, ecology and evolution. *Philosophical Transactions of the Royal Society A*, 377:20180265. doi: 10.1098/rsta.2018.0265

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## ARTICLES IN REVIEW/ PREPARATION § shared first author, \* corresponding author

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**Surapaneni VA\***, Thielen M, Speck T. On the critical roughness for capillary-force-mediated insect traction: a plant surface perspective

**Surapaneni VA\***, Schindler M, Luke T, Payne N, Persoons T, Dean MN. Swimming speed and raker hook design enable efficient food transport in basking sharks

Schindler M, Liu C, **Surapaneni VA**, Li T, Paskin M, Mollen F, Amini S, Hanna S, Dean M. Elongated gill rakers of the basking shark (*Cetorhinus maximus*) as adapted bio-composites for hydrodynamic high-volume suspension filtering

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## PUBLISHED PATENTS

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Kaviti AK, Akkala SR, Pasula N, **Surapaneni VA** (2022) Submerged nanoporous micro hotspot structure for solar desalination and method of preparation. Patent Office Chennai, India, appl. no.: 202241003900

**Surapaneni VA** (2019) A method to create robust superhydrophobic/self-cleaning surface. Patent Office Chennai, India, appl. no.: 201841003238

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## TALKS \* presenting author

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Schindler M\*, Li T, Mollen FH, Payne N, Amini S, **Surapaneni VA**, Hu R, Dean MN (2025) Against the grain: untangling the tangled denticles of basking sharks. XLII Annual Meeting of the Willi Hennig Society. Hong Kong SAR, China. Jul 22–25.

Schindler M\*, Li A, Mollen FH, Payne N, Amini S, **Surapaneni VA**, Hu R, Dean, M (2025) Against the grain: untangling the tangled denticles of basking sharks. *SICB Annual Meeting*, Atlanta, USA. Jan 3–7

Li A, Schindler M, Paskin M, **Surapaneni VA**, Scott E, Hauert S, Payne N, Cade D, Goldbogen J, Mollen FH, Baum D, Hanna S, Dean, M (2025) Functional models from limited data: parametric anatomy and 3D kinematics of basking shark feeding. *SICB Meeting*, Atlanta, USA. Jan 3–7

Hatten C, Flaum B, Hayat K, Kong TF, Hu R, **Surapaneni VA**, Doube M, Dean MN\* (2023) The helmeted hornbill's hammer: complex anatomy and impact-resistant structural design of the casque. *International Congress of Vertebrate Morphology*, Cairns, Australia. Jul 28–Aug 1.

Schindler M\*, Chuang L, Li T, Paskin M, Png Y, Mollen FH, Payne NL, Amini S, **Surapaneni VA**, Dean MN (2023) Armed to the teeth: Adaptive functionality of shark denticles from material and mechanical perspectives. *International Congress of Vertebrate Morphology*, Cairns, Australia. Jul 28–Aug 1.

**Surapaneni VA\***, MN Dean\* (2023) Multidisciplinary filter science: Current trends and future directions. *Filters in Biology & Biomimetics (FiBB)*, Berlin, Germany. May 15–16

Caruggi de Faria L\*, Schindler M, Li T, **Surapaneni VA**, Dean MN, Hanna S (2023) Investigation of basking shark ram feeding using CFD, from the whole fish down to gill rakers. *Filters in Biology & Biomimetics (FiBB)*, Berlin, Germany. May 15-16.

Schindler S\*, Liu C, **Surapaneni VA**, Caruggi de Faria L, Li T, Paskin M, Mollen F, Amini S, Hanna S, Dean MN (2023) Filter feeding in basking sharks - materials and mechanics. *Filters in Biology & Biomimetics (FiBB)*, Berlin, Germany. May 15-16.

Li T\*, Paskin M, Schindler M, Png Y, Cade D, **Surapaneni VA**, Baum D, Goldbogen J, Hanna S, Dean MN (2023) Lessons from really big fish: Integrating incomplete data in digital reconstruction of basking shark feeding apparatus. *Filters in Biology & Biomimetics (FiBB)*, Berlin, Germany. May 15-16.

Li T, Paskin M, Schindler M, Png Y, Cade D, **Surapaneni VA\***, Baum D, Goldbogen J, Hanna S, Dean MN (2023) Lessons from really big fish: Integrating incomplete data in digital reconstruction of basking shark feeding apparatus. *SICB Annual Meeting*, Austin, USA. Jan 3–7

Li T\*, Paskin M, Schindler M, Png Y, Cade D, **Surapaneni VA**, Baum D, Goldbogen J, Hanna S, Dean MN (2022) Lessons from really big fish: 3d reconstruction of coherent skeletal models from incomplete and noisy data. *Tomography for Scientific Advancement*, London, UK. Sep 7-9.

**Surapaneni VA\***, Wölfer J, Schindler M, de Faria L, Mollen F, Amini S, Hanna S, Dean M (2022) Ecomorphology of multifunctional wrinkles across terrestrial and aquatic organisms - a source of inspiration for functionalized biomimetic surfaces. *SEB Conference*, Montpellier, France. Jul 5–8

Schindler S\*, Liu C, **Surapaneni VA**, Caruggi de Faria L, Li T, Paskin M, Mollen F, Amini F, Hanna S, Dean MN (2022) Hierarchical design of basking shark gill rakers and their potential for high-volume suspension filters. *SEB Conference*, Montpellier, France. Jul 5–8

**Surapaneni VA\***, Schindler M, de Faria L, Ziege R, Bidan C, Mollen F, Amini S, Hanna S, Dean MN (2022) Groovy and gnarly: Surface wrinkles as a multifunctional motif for terrestrial and marine environments. *SICB Annual Meeting*, Phoenix, USA. Jan 3–7 (**Invited**)

Schindler M\*, Liu C, **Surapaneni VA**, Tang T, De Falco P, Mollen F, Amini S, Hanna S, Dean MN (2022) Hierarchical Design of basking shark gill rakers and their potential for high-volume suspension filters. *SICB Annual Meeting*, Phoenix, USA. Jan 3-7.

**Surapaneni VA\*** (2022) Bioinspiration - interdisciplinary approach for nature-inspired innovation. VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad, India. Dec 1 (**Invited**)

**Surapaneni VA\***, Bold G, Thielen M, Speck T (2021) Cuticular folds on plant leaves and their influence on insect adhesion. Max Planck Institute of Colloids and Interfaces, Potsdam, Germany. Jun 21 (*Invited*)

**Surapaneni VA\*** (2019) Comparative biomechanics and bioinspiration. Bapatla Engineering College, Bapatla, India. Dec 27. (*Invited*)

**Surapaneni VA\***, Bold G, Thielen M, Speck T (2019) Plant cuticular folds and their influence on insect adhesion *FMF Colloquium*, Schluchsee, Germany. Oct 11.

**Surapaneni VA\***, Bold G, Thielen M, Speck T (2019) Microstructural morphology of plant surfaces and bioinspiration. *PlaMatSu Annual Meeting*, University of Cambridge, Cambridge, UK, Sep 9–19

**Surapaneni VA\***, Bold G, Thielen M, Speck T (2019) Plant surface microstructures - insect adhesion and biomimetics, *EUROMAT*, Stockholm, Sweden. Sep 1–5

**Surapaneni VA\***, Bold G, Thielen M, Speck T (2018) Ontogenetic variations of plant surface microstructures and insect adhesion. *International Plant Biomechanics Conference*, Montreal, Canada. Aug 9–14

**Surapaneni VA\*** (2018) Wrinkles: overview, applications and models. *Annual Seminar*, Albert Ludwig's University of Freiburg, Freiburg im Breisgau, Germany. Jun 29.

**Surapaneni VA\***, Thielen M, Bold G, Speck T (2017) Physics and mechanics of plant surfaces with cuticular folds, *PlaMatSu Meeting*, Adolphe Merkle Institute, Fribourg, Switzerland, Sep 27-29.

**Surapaneni VA\***, Kaviti AK (2017) On the evaporation of hydrophobic camphor soot mixed water. *International Conf. on Materials Processing & Characterization*, Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, India. Mar 17-19.

## **AWARDS AND RECOGNITIONS**

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<b>Visiting scientist and Lindau Alumni</b> — '72nd Lindau Nobel Laureate Meeting' Invited by the Council for the Lindau Nobel Laureate Meetings, Germany	2023
<b>Honor magna cum laude</b> — for excellence in doctoral studies University of Freiburg, Freiburg im Breisgau, Germany	2021
<b>First prize</b> — 'Momento Critico', a national-level competition on truss mechanics Jawaharlal Nehru Technological University, Hyderabad, India	2007
<b>Certificate of merit</b> — 'Nocturnal Machines', a national-level competition on linkages Jawaharlal Nehru Technological University, Hyderabad, India	2007
<b>Third rank</b> — II year B.Tech Mechanical Engineering Bapatla Engineering College, Bapatla, India	2007
<b>First prize</b> — Technical quiz, a college-level competition on engineering basics Bapatla Engineering College, Bapatla, India	2006

<b>Second rank</b> — 1 year B.Tech Mechanical Engineering Bapatla Engineering College, Bapatla, India	2006
Scholastic and co-curricular achievements during schooling Flora Public School, Vuyyuru, India	1997, 1998

## GRANTS AND FUNDING

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FSBI small research grant for a collaborative project at Trinity College Dublin, Ireland ~631220 INR from Fisheries Society of the British Isles, UK	2023
Funding for co-organising 'Multidisciplinary approaches in conservation forensics in Hong Kong: Developing new tools for combating wildlife crime' conference, Hong Kong ~4781100 INR from Ocean Park Conservation Foundation, Hong Kong; Croucher Foundation, Hong Kong and City University of Hong Kong	2023
Financial support to attend the '72nd Lindau Nobel Laureate Meeting', Germany ~446600 INR from Council for the Lindau Nobel Laureate Meetings, Germany and Croucher Foundation, Hong Kong	2023
Funding for organizing 'Filters in Biology+Biomimetics' conference, Germany ~1962180 INR from Matters of Activity, Germany; Carl Gans Fund, USA; Fisheries Society of the British Isles, UK; Society for the Study of Evolution, USA; Company of Biologists, UK and Society for Integrative and Comparative Biology, USA	2023
Broadening participation professional development award ~41360 INR from SICB 2023 Annual Meeting, Austin, USA	2023
Travel & registration grant: mechanical ecology-taking biomechanics to the field ~134000 INR from SEB Annual Conference, Montpellier, France	2022

## FELLOWSHIPS

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Marie Sklodowska Curie Early-Stage Researcher Fellowship ~13417000 INR from EU Horizon 2020 for PhD at University of Freiburg, Freiburg, Germany (also conferred the title 'Marie-Curie Alumni')	2017–2020
MHRD India Fellowship for master studies ~192000 INR for masters at National Institute of Technology Karnataka, Surathkal, India	2012–2014

## MENTORING EXPERIENCE

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City University of Hong Kong, Kowloon, Hong Kong Mike Schindler (PhD student)
Albert Ludwig's University of Freiburg, Freiburg im Breisgau, Germany Tobias Aust (bachelor student)
VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad, India Phani Raj M and Manideep G (master students)

Neelothpal B, Navadheer, Pranitha B, Padmakala V,  
 Revathi P, Anand Kumar S, Sravani M, Sarath Chandra Y,  
 Shashank Naik B, Dheeraj Kumar B, Raghu Vamshi D, Salman MD (bachelor students)  
 Mentored 20 first year bachelor students on academics and career planning

## **PROFESSIONAL ACTIVITIES AND OUTREACH**

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Co-Organizer, 'Multidisciplinary approaches in conservation forensics in Hong Kong' Tai Kwun, Hong Kong, May 13-14.	2024
Educational Council member The Society for Integrative and Comparative Biology (SICB), USA	2023–2026
Organizer, first international 'Filters in Biology+Biomimetics' conference Matters of Activity – Image Space Material, Berlin, Germany. May 15–16	2023
Gans award committee (GAC) member, Division of Comparative Biomechanics The Society for Integrative and Comparative Biology (SICB), USA	2023
Editorial reviewer Integrative and Comparative Biology journal	2022–2023
Reviewer for the journals: Acta Biomaterialia, Royal Society Open Science, Bioinspiration and Biomimetics, Biomedical Materials, Beilstein Journal of Nanotechnology, Applied Physics A and Surface Topography: Metrology and Properties	2020–2023
Coordinating member, 'Our Future Is Nature Inspired', a public outreach exhibition Cambridge University Botanic Garden, Cambridge, UK. Sep–Nov	2020
Scientific outreach through Wikimedia projects: popularization of bio-inspired materials on Wikipedia. Adolphe Merkle Institute. Fribourg, Switzerland. Sep 25–26	2018
Coordinator, workshop on 'Advanced Engineering Materials and Applications' VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad, India. Jan 31	2017
Coordinator, 'Open House 2k17', a student project exhibition VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad, India	2017
Organizer, 'MechElements – BECTAGON' 07', a national-level technical symposium Bapatla Engineering College, Bapatla, India	2007

## **OTHER SELECTED PARTICIPATION**

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Opening open science to elderly worldwide. 3rd Lindau online sciathon Lindau Nobel Laureate Meetings. Lindau, Germany. Apr 28-30.	2023
Workshops on "Introduction to R&D in industry" and "public outreach" University of Cambridge, UK. Sep 10-19.	2019
Training workshops on scientific writing and presentation skills ESR Weekend, Paris, France. Jul 18-21.	2019

Scientific outreach through Wikimedia projects: popularization of bio-inspired materials on Wikipedia. Adolphe Merkle Institute. Fribourg, Switzerland. Sep 25-26.	2018
Living Light conference University of Cambridge, Cambridge, UK. Apr 10-14.	2018
Winterschool - ITN PlaMatSu & NCCR Bio-inspired materials St. Moritz, Switzerland. Jan 28-Feb 3.	2018
International workshop on "Adhesion and friction: simulation, experiment, applications" TU Berlin, Berlin, Germany. Nov 13-16.	2017
Workshop on 'Ethical challenges for young scientists' Adolphe Merkle Institute, Fribourg, Switzerland. Sep 29.	2017
Workshop on 'Technology transfer and innovation' Adolphe Merkle Institute. Fribourg, Switzerland. Sep 28.	2017
EU H2020 ITN PlaMatSu: PhD Student Participation - Outreach on YouTube Adolphe Merkle Institute. Fribourg, Switzerland. Sep 28.	2017
Workshop on 'Advanced numerical modeling techniques in Mechanical Engineering' VNR VJiet, Hyderabad, India. Mar 27-31.	2017
National workshop on 'Design and applications of nanomaterials for sensors' VNR VJiet, Hyderabad, India. Nov 10-12.	2016
Workshop on 'Teaching and evaluating for the 21st century' IIT Hyderabad Teaching Learning Center, VNR VJiet, Hyderabad, India. May 18-19.	2016
Seminar on 'Civilian applications of aerospace technologies' Institution of Engineers (India), Hyderabad, India. Mar 27-28.	2015
Special lecture on 'Nanofluids and renewable energy' National Institute of Technology Karnataka, Surathkal, India. Aug 26-29.	2013
Sensitization camp on 'Technopreneur Promotion Programme' (TePP) Acharya Nagarjuna University, Guntur, India. Mar 9-10.	2009
Basic training on STAR Design and STAR-CC+ CD Adapco, Bangalore, India	2008

## **PAST MEMBERSHIPS**

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Society for Experimental Mechanics (SEM)  
Society for Integrative and Comparative Biology (SICB)  
Society for Experimental Biology (SEB)  
Fisheries Society of the British Isles (FSBI)

## **SELECTED MEDIA COVERAGE**

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“Spotlight on Amar Surapaneni” SEB Magazine. Summer 2024	2024
“Never-Before-Seen Method For Making The Color Blue Found in Stingray Spots” Science Alert. Jul 16	2024
“Unraveling Nature’s Electric Blues” Forbes. Jul 13	2024
“Ribbontail rays produce their dazzling blue spots without pigments” New Atlas. Jul 05	2024
“The colorful secret behind stingrays’ electric blue spots” Advanced Science News. Mar 04	2024
“Blue is hard” Daily Tech News Show. Feb 27	2024
“Microscopic wrinkles in leaves ward off insects ” Scientific American. Feb 01	2021
“Rubber tree plant leaves found to grow slippery to ward off insects as plant ages” Phys.org. Jan 14	2021
“Vibhinnam...Vinuthnam”, a highlight on student demonstration of superhydrophobicity Sakshi Newspaper, India. Mar 04	2016

## **EXTRA-CURRICULAR ACTIVITIES**

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Founder, Centre for Creative Arts, a student cultural activity club Bapatla Engineering College, India	2008
Organizer, Yuvam' 08, a state-level youth festival Bapatla Engineering College, India. Feb 15-17.	2008
Won one international award and many national and state level awards in sketching and painting, including five awards in popular national-level college fests such as Saarang'08, Saarang'09 at IIT Madras, India and Mood Indigo'08 at IIT Bombay, India	1997-2009
Lower diploma in drawing Technical examinations, Government of Andhra Pradesh, India	2002