



MEMORANDUM OF UNDERSTANDING

Between

Tirumala Tirupati Devasthanams

SRI VENKATESWARA COLLEGE

University of Delhi, New Delhi, India

&

CZECH UNIVERSITY OF LIFE SCIENCES PRAGUE

Czech Republic

to establish scientific collaboration through joint research activities, academic exchanges and research internships

C. Sheela Reddy

PROF. C. SHEELA REDDY

Principal, Sri Venkateswara College
University of Delhi, India

Petr Sklenička

PROF. ING. PETR SKLENIČKA

Rector, Czech University of Life Sciences Prague, Czech Republic



LAB AGREEMENT

Between

**Sri Venkateswara College,
University of Delhi, Delhi, India**

&

**Czech University of Life
Sciences Prague, Czech Republic**

to establish scientific collaboration through joint research activities, academic exchanges and research internships



C. Sheela Reddy

PROF. C. SHEELA REDDY
Principal, Sri Venkateswara College
University of Delhi, India

Vartika Mathur

ASSOC. PROF. VARTIKA MATHUR
Department of Zoology, Sri Venkateswara
College University of Delhi, India

Patrick Van Damme

PROF. PATRICK VAN DAMME
Dean of Faculty of Tropical AgriSciences,
Czech University of Life Sciences Prague

Jan Šobotník

ASSOC. PROF. JAN ŠOBOTNÍK
Department of Sustainable Technologies,
Faculty of Tropical AgriSciences, Czech
University of Life Sciences Prague



MEMORANDUM OF UNDERSTANDING

Sri Venkateswara College, University of Delhi, India

Located at: Benito Juarez Marg, Dhaula kuan, New Delhi-110021, India

Represented by: prof. C. Sheela Reddy

and

Czech University of Life Sciences Prague, Czech Republic

Located at: Kamýcká 129, 165 00, Praha – Suchdol, Czech Republic

Represented by: prof. Ing. Petr Sklenička, CSc., rector

After the discussions, the parties have agreed to sign MOU on cooperation as follows:

1. Purpose of cooperation

Cooperation to promote the development in the field of human resources training, scientific research and technology transfer between Sri Venkateswara College, University of Delhi, India, and Czech University of Life Sciences Prague, Czech Republic; to contribute to tighten relations of friendship, and traditions between India and the Czech Republic.

2. Field of cooperation

a) The Parties shall endeavor to develop cooperation in the following areas of cooperation:

- Training human resources for basic and applied research in entomology.
- Sustainable development of agricultural practice in the tropics.
- Cooperating in scientific research and technology transfer in various fields such as Environmental protection, food technology, Forestry and wood processing, biotechnology, renewable energy.

b) The parties support the information exchange, participation in seminars, and co-conferences.

3. General agreement:

- This MOU forms basis framework, so that the parties can develop and implement next cooperation programs between them.

- This MOU will come into effect from the date of signing, be valid for a period of five (5) years and be renewed tacitly for a further five (5) years, if no party cancels it in writing, at least 5 months before its expiration.

- The cooperation will be done in accordance with the laws of each country and the capacity of each party. The Parties may agree to add additional areas of cooperation after mutual consultations and supplement them in writing to this Memorandum of Understanding.

- In the implementation process if any arise, the Parties will discuss and agree the issue in a spirit of cooperation and the parties will jointly sign addenda. Any amendment to this MOU shall be effective only if it is fully and legally signed and approved by all parties. The rights and responsibilities recorded in this MOU will continue to be valid for the successors of the parties in it.

- The present Memorandum of Understanding is written in English language in three (3) identical copies, each copy will be signed by the representatives of the parties. Czech University of Life Sciences Prague will receive two (2) and Sri Venkateswara College, University of Delhi, one (1) identical copies of the Memorandum.

- This MOU takes effect from the date of signing.

In Prague on 25 -10- 2021

**REPRESENTATIVE OF SRI
VENKATESWARA COLLEGE,
UNIVERSITY OF DELHI, INDIA
PRINCIPAL**

**REPRESENTATIVE OF
CZECH UNIVERSITY OF LIFE
SCIENCES PRAGUE
RECTOR**

C. Sheela Reddy
Prof. C. Sheela Reddy
PRINCIPAL
Sri Venkateswara College
Dhaura Kuan, New Delhi-110021

Petr Sklenička
prof. Ing. Petr Sklenička, CSc.



LAB AGREEMENT

Between

- 1. Czech University of Life Sciences Prague (CULS), Czech Republic**
Faculty of Tropical Sciences, Termite Research Team
Represented by Prof. Patrick Van Damme and Assoc. Prof. Jan Šobotník

And

- 2. Sri Venkateswara College, University of Delhi, India**
Represented by Prof. C. Sheela Reddy and Assoc. Prof. Vartika Mathur

WHEREAS: Parties wish to establish mutual scientific collaboration on project concerning the biodiversity and biology of termites in India.

Parties agree as follows:

- Art. 1. Cooperation between parties shall be carried out, subject to availability of funds, the approval of both parties and on the basis reciprocity, through such activities or programmes as:
- Joint research activities
 - Exchange of scientific samples and data
 - Publication activities of mutual interests
 - Scientific internships for junior scientists and students
 - Academic exchanges between scientists
- Art. 2. The cooperation described above will in every case be dependent upon the availability of necessary funds, either provided by one or both parties or from external sources. Both parties, separately or jointly, will try to allocate sources for common activities.
- Art. 3. The areas of cooperation include, subject to mutual consent, any programme or project offered by either party and considered desirable and having potential to contribute to the mission and effectiveness of either party and/or contribute to fostering the cooperative relationship between parties.
- Art. 4. Concerning collaborative research activities, the parties hereby further agree that:
- Travel and living expenses shall be the responsibility of the visiting participants, unless both institutions agree to alternatives.
 - The host party will assist in finding suitable lodging for visiting participants.
 - Both parties will collaborate on obtaining necessary official documents needed for conducting intended research activities such as research VISA, research permits, entrance permits, collecting permits, etc.
 - Visiting participants will be responsible for obtaining the necessary insurance coverage (medical, insurance of damage etc). The host

institution cannot be held responsible for any damage suffered or caused by visiting participants.

- Visiting participants will abide by the rules and regulations of the host institution and by local laws.

Art. 5. The present Lab Agreement is signed for 5 years (five years), starting from the date of its signature by both parties, and is renewable by tacit agreement for equal periods. Either party may terminate this Lab Agreement by means of a certified (registered) letter received by the other party six months prior to the end of any calendar year.

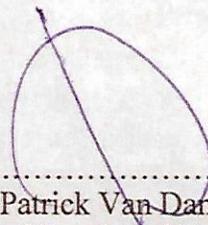
Art. 6. In the event that one or several items of this agreement is deemed inapplicable due to certain prevailing judicial decisions or legislative acts, the parties will look for alternative agreements on this or these litigious points. However, all other applicable items of this agreement will remain in force, but only for the continuation of the current year.

Art. 7. The present Lab Agreement is written in English language in two (2) identical copies, each copy will be signed by the representatives of the parties and legalised with an official stamp.

SIGNED BY:

C. Sheela Reddy

.....
Prof. C. Sheela Reddy
Principal, Sri Venkateswara College
University of Delhi, India



.....
Prof. Patrick Van Damme
Dean of Faculty of Tropical AgriSciences,
Czech University of Life Sciences Prague

Vartika Mathur

.....
Assoc. Prof. Vartika Mathur
Department of Zoology, Sri Venkateswara
College University of Delhi, India

Jan Šobotník

.....
Assoc. Prof. Jan Šobotník
Department of Sustainable Technologies,
Faculty of Tropical AgriSciences, Czech
University of Life Sciences Prague

10.7.2021

.....
DATE

29.6.2021

.....
DATE

Stamp of Institution

Stamp of Institution

Activity 1
Termite sample Collection

NAME OF THE ACTIVITY: Termite sample collection from arid habitat for MoU with Czech University of Life Science			
DATE	FACULTY	COMMITTEE	COORDINATOR
12 th to 14 th September, 2021	SCIENCE	MoU between Czech University of Life Science, Czech Republic & Sri Venkateswara College	Dr. Vartika Mathur
TIME	VENUE	NUMBER OF PARTICIPANTS	NATURE: Outdoor/Indoor
3 days	Jodhpur	3 (Dr. Jan Šobotník, Associate Professor, Czech University of Life Sciences; Mr. Himanshu Thakur, Ph.D. Student, Palampur University; Dr. Vartika Mathur, Sri Venkateswara College)	Outdoor
SUPPORT/ ASSISTANCE:	Sponsored by Czech University of Life Sciences  <small>CZECH UNIVERSITY OF LIFE SCIENCES PRAGUE FACULTY OF TROPICAL AGRISCIENCES Karmýčská 129, 165 21 Prague 6-Suchbát Czech Republic Tel: +420 224 384 187</small>		

BRIEF INFORMATION ABOUT THE ACTIVITY

TOPIC/SUBJECT OF THE ACTIVITY	Termite sample collection from arid habitat
OBJECTIVES	To collect live termite samples for taxonomy and biochemical analysis
METHODOLOGY	<ul style="list-style-type: none"> Field visit was conducted near Jodhpur Jaisalmer highway on 12th and 13th September 2021. The termite samples were collected from selected sites in plastic boxes along with their fungal gardens. Morphological identification of the different termite samples was performed The team also visited Arid Forest Research Institute, Jodhpur.
OUTCOMES	<ul style="list-style-type: none"> Termites from the genus <i>Amitermes</i>, <i>Ancestrotermes</i> and <i>Odontotermes</i> were collected from selected sites

C. Sheela Reddy

PRINCIPAL
 Sri Venkateswara College
 Dhaula Kuan, New Delhi-110021



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FACULTY OF TROPICAL AGRISCIENCES
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SRI VENKATESWARA COLLEGE
(University of Delhi)

Internal Quality Assurance Cell

Chairperson

Prof C. Sheela Reddy
Principal
Sri Venkateswara College

IQAC Coordinator

Dr. N. Latha
Department of Biochemistry

External Members

Prof Debi P Sarkar
Department of Biochemistry
University of Delhi South
Campus

Prof Alo Nag
University of Delhi South
Campus

Dr. Gitanjali Yadav
NIPGR, Delhi

Internal Members

Dr. Meenakshi Bharat
Department of English

Dr. Lalitha Josyula
Department of Electronics

Dr. Namita Pandey
Department of Political
Science

Dr. A. K. Chaudhary
Department of Physics

Dr. K.C. Singh
Department of Physics

Dr. Swarn Singh
Department of Mathematics

Dr. Neeraj Sahay
Department of History

Dr. Vartika Mathur
Department of Zoology

Dr. Shruti Mathur
Department of Commerce

Dr. Padma Priyadarshini
Department of Sociology

Dr. Nimisha Sinha
Department of Biochemistry

Shri D. Venkat Ramana
A.O(I/C)

This is to certify that the Activity report (Teacher/Department /Society/Association) has been submitted for documentation to IQAC, Sri Venkateswara College, University of Delhi.

N. Latha

IQAC Coordinator
Sri Venkateswara College

Coordinator, IQAC
Sri Venkateswara College
(University of Delhi)
Dhaulta Kuan, New Delhi-110021

C. Sheela Reddy

PRINCIPAL
Sri Venkateswara College

PRINCIPAL
Sri Venkateswara College
(University of Delhi)
Dhaulta Kuan, New Delhi-110021

Activity 2

International symposium on Recent Methodologies and Advances in Termite Research



SRI VENKATESWARA COLLEGE (UNIVERSITY OF DELHI)

EVENT REPORT

NAME OF THE EVENT: International symposium on 'Recent Methodologies and Advances in Termite Research'			
DATE	DEPARTMENT	COMMITTEE/SOCIETY	COORDINATORS NAME
28-09-2021	Department of Zoology	Zoology	Dr. Vartika Mathur Dr. Anita Verma Dr. Vagisha Rawal Dr. Aarti Seherawat
TIME	VENUE	NUMBER OF PARTICIPANTS	NATURE: Outdoor/Indoor; online/offline/hybrid
10:30-12:30 pm	Hybrid Mode (Online and Offline)	289	Hybrid/ Indoor
FINANCIAL SUPPORT/ASSISTANCE (if any):	Sri Venkateswara College		

BRIEF INFORMATION ABOUT THE ACTIVITY

TOPIC/SUBJECT OF THE ACTIVITY	International symposium on Recent Methodologies and Advances in Termite Research
OBJECTIVES	To share information on: Reproductive strategies of termites, Recent advancements in termitology Discussion about contributions of the speakers in the concerning field.
METHODOLOGY	Conducted in both online and offline mode with one speaker giving an online talk and the other present in person at the venue.
INVITED SPEAKERS WITH AFFILIATION DETAILS (IF ANY)	Dr. Jan Šobotník , Associate Professor, Czech University of Life Sciences, Prague Dr. David Sillam Dussès, Associate Professor, Sorbonne Paris North University, France
OUTCOMES	Students were briefed about classification and importance of termites in ecology, reproductive strategies in termites and how it enabled them to become a dominant species in the tropics, asexual queen succession, evolution of termitology, their role in maintaining soil heterogeneity and warm climate. Furthermore feeding pattern, defences, symbiosis and communication was also explained.

PROOFS & DOCUMENTS ATTACHED (Tick mark the proofs attached):

1 Notice & Letters ✓	2 Number of Participants & Name of participants ✓	3 Video clip	4 Photos ✓	5 Feedback Form & analysis ✓
6 News clip with details	7 Sample Copy of the Certificate ✓	8 Posters/ Invites ✓	9 Event report Attested by Event Coordinator & IQAC Coordinator	10 Any other document

IQAC Document No: IQAC/SVC/2021-22/Zoo 01	Criterion No: III & V
Departmental file no: SVC/2021-22/01	IQAC file No: SVC/2021-22

NAME OF TEACHER & SIGNATURE	NAME OF HEAD/ COMMITTEE INCHARGE & SIGNATURE	IQAC COORDINATOR (SEAL & SIGNATURE)
Dr. Vartika Mathur		
Dr. Anita Verma		
Dr. Vagisha Rawal		
Dr. Aarti Seherawat		

For Reference

Criterion I	Curricular Aspects (planning & Implementation)	Criterion V	Student Support & Progression
Criterion II	Teaching Learning & Evaluation	Criterion VI	Governance
Criterion III	Research, Innovations & Extension	Criterion VII	Institutional Values & Best Practices
Criterion IV	Learning Resources and Infrastructure		

NOTICE AND LETTER



Annexure I

SRI VENKATESWARA COLLEGE
(University of Delhi)

PERMISSION FOR ORGANIZATION OF EVENTS

EVENT DETAILS

1. Name of the Department/Society /Association: Zoology
2. Name of the TIC/Convenor (if any) : Dr/Mr/Ms. VARTIKA MATHUR
3. Nature of Event : Seminar/ Conference/ Symposium
Workshop/EDP/Public or community outreach/ skill enhancement
4. Participants: Student-centric /Faculty/Both
5. Event Type : Offline/Online/Hybrid; Indoor/~~Outdoor~~
6. Society or Diamond Jubilee: Diamond Jubilee
7. Collaborating Agency /Organization: Faculty of Life Sciences, Czech University
8. Proposed Title of the Event: International Symposium on "Recent Methodologies and Advances in Termites Research"
9. Tentative List of Speakers: ① Dr. Jan Sobotnik (Czech University); ② Dr. David Sillam Dussés
10. Duration & Date: 28 September 2021 ; 10:30am - 12:30 pm (2 hours)
11. Financial Assistance (if any): Rs 5000/-
12. Proposed Budget (with details): Rs 3000 - Food/Refreshment
Rs 2000 - ICT support

Vartika Mathur
(Dr. Vartika Mathur)
Name & Signature of TIC/Convenor

C. Anila Kalyan
Signature of Principal

Date: 15th September 2021

Date: 15th September 2021

To

The Principal
Sri Venkateswara College
Dhaura Kuan
University of Delhi
New Delhi-110021

Permitted
ul
18/9/2021

Date: 10th September 2021

Subject: Permission to use Seminar Hall for International Symposium on "Recent Methodologies and Advances in Termite Research" on 28th September, 2021 in Hybrid mode.

Respected Madam,

We are happy to inform you that Department of Zoology, SVC is organising an International Symposium on "Recent Methodologies and Advances in Termite Research" on 28th September 2021 as an event of DJY celebration. We would like to conduct the symposium in seminar hall and for the same we request you to kindly permit us to use the seminar hall from 10:00 am-01:00 pm on 28th September 2021.

Thanking You

Vartika Mathur

Dr. Vartika Mathur (Convenor)
Associate Professor
Department of Zoology
Sri Venkateswara College

PARTICIPANTS- FACULTY

International Symposium Recent Methodologists and Advances in Termite Research

Organized by Department of Zoology,

Sri Venkateswara College

FACULTY ATTENDANCE

Sr. No.	Name of the Teachers	Departments	Signature
1	Dr. Anita Verma	Zoology	<i>Anita Verma</i>
2	Dr. Vanika Mathur	Zoology	<i>Vanika</i>
3	Dr. Sadqua Shameem	Zoology	<i>Sadqua</i>
4	Dr. Asti Seheramal	Zoology	<i>Asti</i>
5	Dr. Vagisha Rawal	Zoology	<i>Vagisha</i>
6	Dr. Mansi Verma	Zoology	<i>Mansi</i>
7	Dr. Navita Nayyar	Zoology	<i>Navita</i>
8	Dr. Nawaz Alam Khan	Zoology	<i>Nawaz</i>
9	Dr. HIMANI KHURANA	ZOOLOGY	<i>Himani</i>
10	Dr. Robin Sengupta	Env. Sciences	<i>Robin</i>
11	DR RIYAZ BAKSHI	Zoology	<i>Riyaz</i>
12	Dr. Preeti Khandelwal	Zoology	<i>Preeti</i>
13	Dr. Rajendra Phusgot	Zoology	<i>Rajendra</i>
14	Dr. Amarjeet Singh	Zoology	<i>Amarjeet Singh</i>
15			
16			
17			

PARTICIPANTS- STUDENTS

International Symposium Recent Methodologists and Advances in Termite Research

Organized by Department of Zoology,

Sri Venkateswara College

STUDENTS ATTENDANCE

Sr. No.	Name of the Students	Course	Signature
1	SHALINI RAMAN	BSc (H) ZOOLOGY	<i>Shalini</i>
2	MUSKAAN SHARMA	BSc (H) ZOOLOGY	<i>Muskaan</i>
3	TANYA GOEL	BSc (H) ZOOLOGY	<i>Tanya G.</i>
4	Soniya	BSc (H) Zoology	<i>Soniya</i>
5	Suman	BSc (H.) Zoology	<i>Suman</i>
6	Palak	BSc (H.) Zoology	<i>Palak</i>
7	Devika vijay	BSc (H) Bio. Science	<i>Devika</i>
8	Cheshte Varshney	B.Sc. (H) Bio. Science	<i>Cheshte</i>
9	Draxi Bansal	BSc (H) Bio science	<i>Draxi</i>
10	Shubhangi Bhat	BSc (H) Bio Science	<i>Shub</i>
11	Atharv Kapoor	BSc (H) Bio Sciences	<i>Atharv</i>
12	Anantpreet Kans Sood	BSc. (H) Bio Sciences	<i>Anantpreet</i>
13	Ambika Singh	BSc (H) Bio Sciences	<i>Ambika</i>
14	Kamaljit	Trainee @ API Lab	<i>Kamaljit</i>
15	Sonali Kumari	B.Sc. (H) Bio Sciences	<i>Sonali</i>
16	Jaanvi	B.Sc. (H) Bio Sciences	<i>Jaanvi</i>
17	Neha Guliyra	B.Sc (H) Biological Science	<i>Neha Guliyra</i>

18	Ayushi Sharma	B.Sc.(H) Biological Sciences	Ayushi
19	Sanidhya Jagdish	B.Sc.(H) Biological Sciences	Sanidhya
20	Panidhi Kotnala	B.Sc.(H). Biological Sciences	Panidhi
21	Abhirami Sunil	Bsc (H). Biological Science	Abhirami
22	Senali Panjan	BSC (H). Biological Science	Senali
23	Ritu Kshatriya	MSc Environmental Science	Ritu
24	ABHISHEK KUMAR	Lab Assistant	Abhishek
25	ARUN KUMAR	Field Assistant	Arun Kumar
26	Himanshu Thakur	Dept. of Entomology CSKHPKV Palampur (HPS)	Himanshu
27	Mukesh	B.Sc. zoology honours	Mukesh
28	Ganima Sharma	Ph.D. ^{student} API Lab	Ganima
29	Surbhi Agarwal	Ph.D. student API Lab	Surbhi
30	Kanishka Sharma	Biological Sciences sem II	Kanishka
31.	Saloni Verma	B. Sc. Zoology (sem II)	Saloni

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Department of Zoology
Sri Venkateswara College, University of Delhi



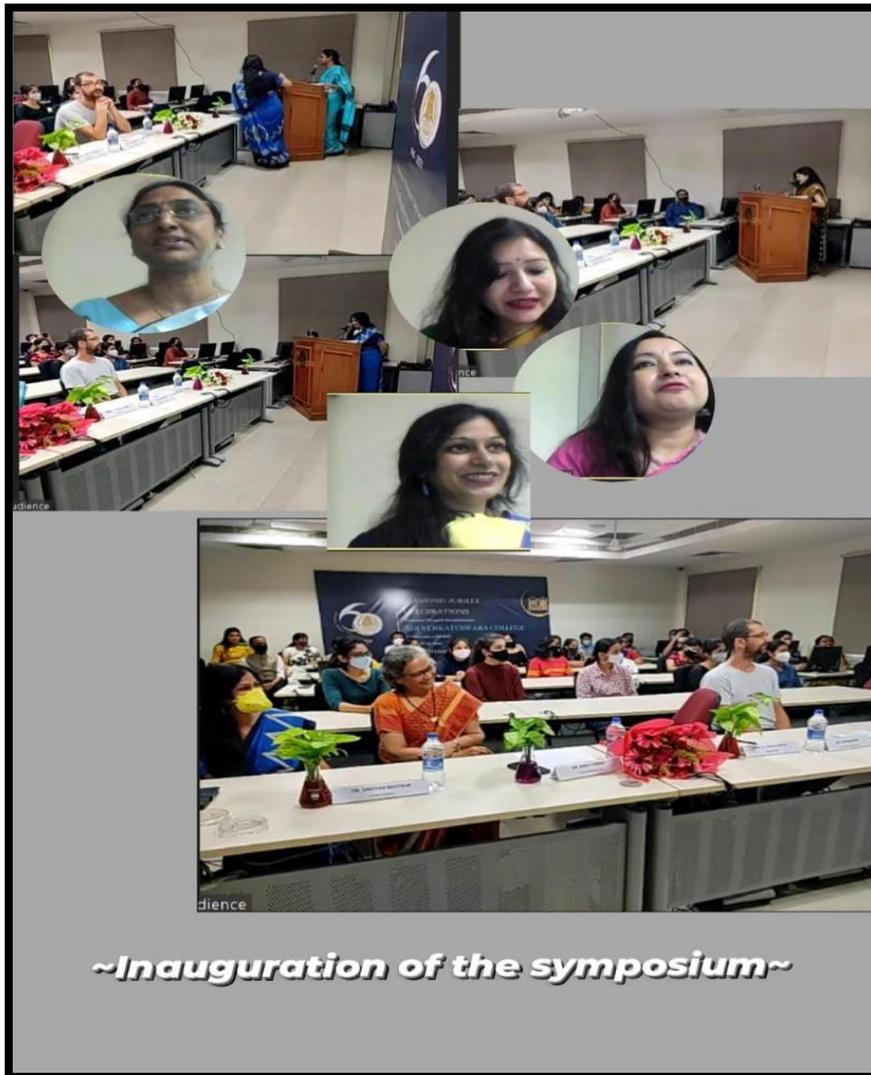
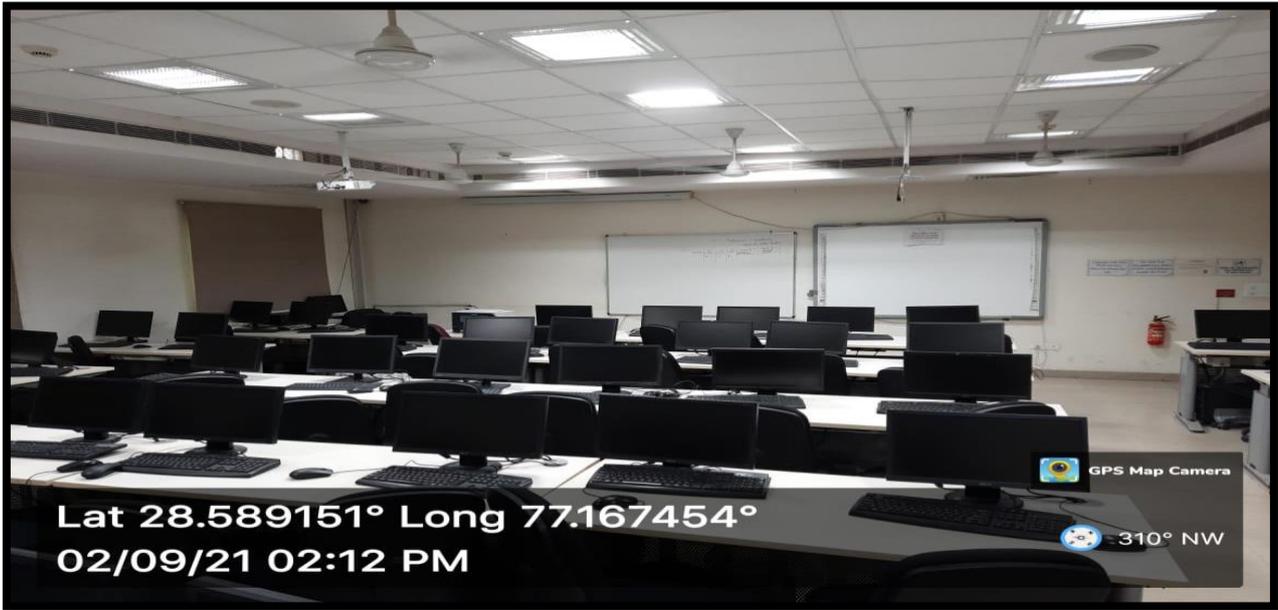
International Symposium
on
'Recent Methodologies and Advances in Termite Research'
28th September, 2021

PROGRAMME SCHEDULE

Time	Event
10:30 am	Beginning of the event with Lamp Lighting
10:40 am	Welcome Address by Prof. C. Sheela Reddy, Principal, SVC
10:45 am	Introduction about the symposium By: Dr. Vartika Mathur (Convener) Associate Professor, Sri Venkateswara College, University of Delhi
10:50 am	Introduction of Honorary Speaker: Dr. David Sillam-Dussès
10:55 am (15+10)	Online Talk on "Sophisticated reproductive strategies enabling termites to be among the dominant insects in the tropics" Dr. David Sillam-Dussès Associate Professor, University of Sorbonne Paris North, France
11:20 am	Introduction of Honorary Speaker: Dr. Jan Šobotník
11:25 am (50+10)	Offline Talk on "Recent advances in Termitology: My contribution to the termite Science" by Dr. Jan Šobotník Associate Professor Czech University of Life Sciences, Prague

12:25 pm	Honoring the Guest Speaker
12:30 pm	Concluding Remarks By: Dr. Anita Verma (Convener) Associate Professor, Sri Venkateswara College, University of Delhi

PICTURES



Online talk by Dr. David Silliam Dusses



Reproductive system in termites
 Diploid family and castes of reproductives
 Diploid family and castes of reproductives
 Complex family several reproductives by allelomatrix (matriculation of several queens and/or kings after castes) or by merge of colonies

From et al. 1985, Insects of the Americas (2004), pp. 1-10, 2019



Offline talk by Dr. Jan Sobotnik

The collage features several key elements:

- Top Left:** A wide-angle photograph of a lecture hall with an audience seated at long tables, facing a stage where a speaker is presenting.
- Top Right:** A video call window showing Dr. Jan Sobotnik, a man with glasses and a beard, wearing a white t-shirt.
- Middle Left:** A slide titled "Communication" with the text "Release of chemical pheromones" and "Food collecting, nest building, nest maintenance, nest expansion, etc." Below the text is a photograph of a termite colony.
- Middle Right:** A smaller version of the lecture hall photo and a smaller video call window of Dr. Sobotnik.
- Bottom Left:** A slide titled "Thorne et al. 2003: Evolution eusociality termites and the soldier caste" and "Maekawa et al. 2012: Soldier formation as parental manipulation". Below this is a sub-heading "Evolution of eusociality and the soldier caste in termites: Influence of intraspecific competition and accelerated inheritance" and a detailed scientific abstract with a small image of a termite.
- Bottom Right:** A close-up photograph of several termites on a light-colored surface.

~ glimpse of the day~



ZOOM MEETING LINK

<https://us04web.zoom.us/j/78245379738?pwd=dWtPdW5QV2x3S3BIMIRhR2IxUXBRQT09>

YOUTUBE VIDEO LINKS FOR THE TALK

<https://youtu.be/Bt6-bC9HcXo>

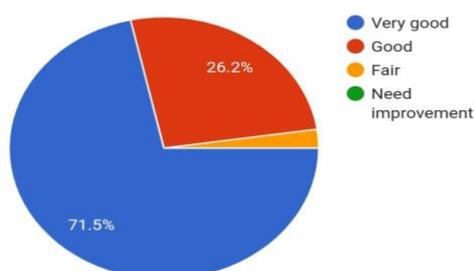
https://youtu.be/zb_hyoR1LZg

FEEDBACK ANALYSIS

The participants in the International Symposium on “Recent Methodologies and Advances in Termite Research” rated the overall experience with the symposium as very good. They were particularly impressed by the speakers and the insightful information gained through their sessions/talks. The hybrid mode of the symposium was the most important element where live participants could interact directly with the speaker as well as attend the seminar from the comfort of their home. Participants in their feedback also mentioned that they would like to attend such informative and interesting sessions in the future too. The feedback analysis also revealed that sessions should be of short duration involving many more speakers so as to engage a wider audience.

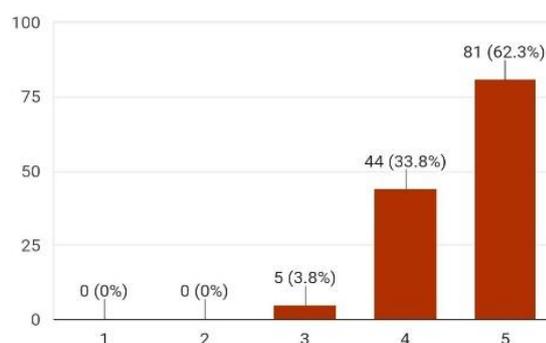
Please rate your level of satisfaction with the quality of sessions

130 responses



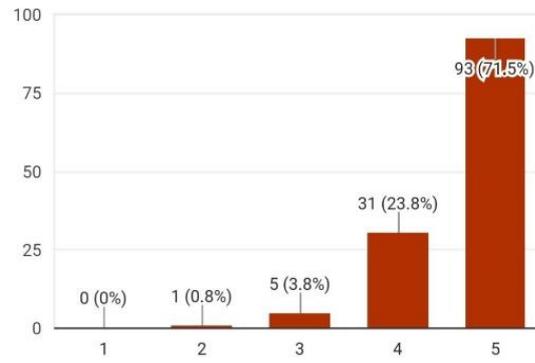
On a scale of 1 to 5, how would you rate the information gained through the symposium?

130 responses



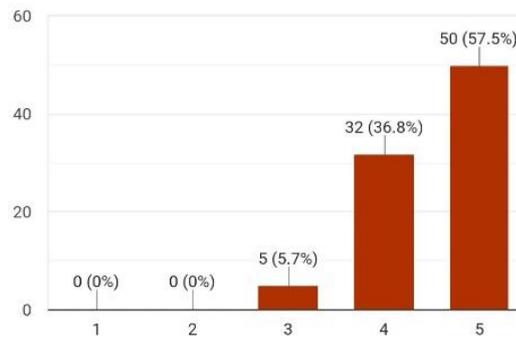
How was your experience with the symposium?

130 responses



On a scale of 1 to 5, how would you rate the hybrid mode of the symposium?

87 responses

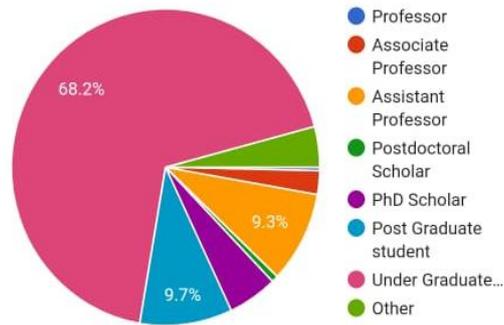


REGISTRATION

Total Registration- 289

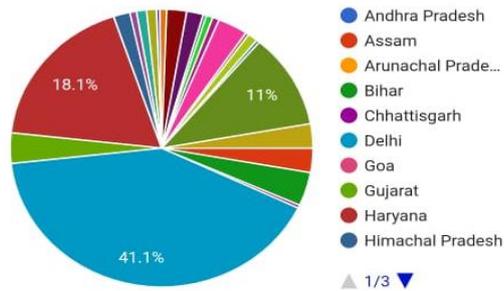
Profession

289 responses



If Indian, mention state

282 responses



POSTER



Commemorating 60 years of
Sri Venkateswara College
Diamond Jubilee Year
Department of Zoology



organizes



International Symposium



Czech University of Life Sciences Prague
**Faculty of Tropical
AgriSciences**

on

Recent Methodologies and Advances in Termite Research

Under the lab agreement between Sri Venkateswara College
& Faculty of Life Sciences, Czech University



Dr. Jan Šobotník

Associate Professor
Czech University of Life Sciences, Prague

***"Recent advances in Termitology:
My contribution to the termite science"***
(Offline –talk)



Dr. David Sillam Dussès

Associate Professor
Sorbonne Paris North University, France

***"Sophisticated reproductive strategies
enabling termites to be among the
dominant insects in the tropics"***
(Online-talk)

PATRON

**Prof. C. Sheela Reddy
(Principal)**

CONVENERS

- Dr. Vartika Mathur
- Dr. Anita Verma

CO - CONVENERS

- Dr. Vagisha Rawal
- Dr. Aarti Seherawat

Scan\ Tap to Register



+91-9990647363, +91-9582189113



termitology2021@gmail.com

28th September, 2021

10:30am-12.30pm in HYBRID MODE

- ✦ Free Registration
- ✦ E-Certificates for all participants

SAMPLE CERTIFICATE

Sri Venkateswara College
University of Delhi

**International Symposium on
Recent Methodologies and Advances in Termite Research
Certificate of Participation**

This is to certify that Mr./Ms./Dr.
of has participated in the
International Symposium on “Recent Methodologies and Advances in Termite
Research” organized by Department of Zoology on September 28th, 2021.



Prof. C Sheela Reddy
Principal



Dr. Anita Verma
Convener



Dr. Vartika Mathur
Convener



Dr. Vagisha Rawal
Co-Convener



Dr. Aarti Seherawat
Co-Convener

EVENT REPORT

Event- International Symposium on “Recent Methodologies and Advances in Termite Research”

Date- 28th September 2021

Timings- 10:30 am - 12:30 pm

Mode- Hybrid (Both online and offline)

Venue- Sri Venkateswara College, University of Delhi

Objective-The main objective of this symposium is to keep ourselves abreast with the latest research on Termite phylogeny, their reproductive strategies that make them one of the most successful organisms on the earth, their influence on ecosystem as well as their social and ecological interactions.

The Zoology Department of Sri Venkateswara College, University of Delhi in collaboration with Faculty of Life Sciences, Czech University organized a Symposium on “**Recent Methodologies and Advances in Termite Research**”. The event took place on 28 September, 2021 and was the first hybrid mode event in our college where people attended it both offline and online. Dr. Jan Šobotník, Associate Professor at University of Life Sciences, Prague was present at the venue and attended the symposium in person while Dr. David Sillam Dussès, Associate Professor at Sorbonne, Paris North University, France joined from Paris in online mode.

Dr. David Sillam Dussès’s talk focused on reproductive strategies employed by termites and how it enabled them to become a dominant species in the tropics. The talk began with basic introduction to termites and the predators that feed on them. The audience was then briefed about Asexual Queen Succession which is responsible for fast growing colonies in termites. He explained the distribution of labor and hierarchy in Emirates neotenic i.e. king and queen, workers and soldiers, and female neotenic. Workers and soldiers are produced by sexual reproduction between king and queen while female neotenic are the products of parthenogenesis. The female neotenic and the king can also sexually reproduce to give workers and soldiers. The talk concluded with the role of termites in tropics and questions from both online and offline audiences.

Dr. Jan Šobotník gave the students an insight of the recent advances in terminology. He started the talk by briefing about the evolution of terminology, classification of termites and about the work distribution among them, he carried on by talking about the importance of termites for our ecology, and how they are “ecosystem engineers”. He explained how termites help in recycling the dead plant tissues aerating the soil, moving tons of material per hectare and year, creating soil heterogeneity. He talked about how important termites are to maintain a warm climate through production of carbon dioxide and methane. He further gave details about the feeding pattern, symbioses, defences and communication.

The feeding evolution in termites, how soil feeding in termites is evolving and numerous termites switch between soil and wood feeding in more advanced taxa. The defence shown by termites in numerous predators and competition, specific function of soldier caste, their chemical and behavioural adaptations.

The communication pattern in termites, which includes communication through different pheromones and their alarm communication, all these everyday details about the termites were shared beautifully in the talk, which was not only informative but also quite interesting. He also talked about symbiosis in termites and its importance. He further talked about different research done in this field and discussed some publications of various talented scientists, he then concluded the talk by sharing his own work in this field.

The talk gave the audience a basic strong knowledge about termites and Dr. Jan Šobotník showed us the biggest termites he found during his recent excursion to Himachal Pradesh. His talk also ended with a question answer session, which made the event more interactive and helped students to get more sound knowledge. It surely was an informative session which could be enjoyed both from the comfort of the home or in the live speaker-audience session. Live audiences got to experience the event after a long period of online sessions, and the hybrid mode helped others to enjoy this from their respective homes. The feedback collected was extremely positive and encouraging and everyone gained a considerable amount of knowledge.



Certificate

This is to certify that the skill-based “International symposium on Recent Methodologies and Advances in Termite Research” was successfully conducted on 28 September 2021 from 10:30am-12:30pm onwards by Department of Zoology in the Hybrid mode and its event report has been submitted to IQAC for records.

C. Sula Reddy
Principal

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Vaidika Pathak
IQAC Coordinator

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