# Seminar Summary Report on "Tribology" March 22nd, 2024

**Title**: Seminar Summary Report on "Tribology"

## **Resource Persons:**

#### 1.Dr. Suman Kalyan Das

Associate Professor Department of Mechanical Engineering Jadavpur University.

**Topic**: Exploring Green Tribology: Enhancing Sustainability in Mechanical Systems and Materials.

#### **Brief Bio-sketch**

Dr. Suman Kalyan Das is currently an Associate Professor in the Department of Mechanical Engineering at Jadavpur University. He earned his PhD from the same institution in 2013. Dr. Das specializes in research areas such as tribology of materials, material testing and characterization, friction stir welding, and additive manufacturing. His academic contributions include publishing articles in over 46 international journals and authoring 15 book chapters. Additionally, he has actively participated in approximately 17 international and national conferences. Prior to his current role, he garnered invaluable experience during his tenure as a Scientist/Engineer at the Vikram Sarabhai Space Center, ISRO, where he contributed to the development of separation systems for the large booster rocket (S200) of the GSLVMk3 launch vehicle over a span of four years

#### 2. Dr. Shouvik Ghosh

Assistant Professor, Department of Mechanical Engineering, Jadavpur University

**Topic:** Study of Mechanical and Tribological Properties of Al-FA and Al-RHA Metal Matrix Composites

### **Brief Bio-sketch**

Dr. Shouvik Ghosh is currently working in the department of Mechanical Engineering, Jadavpur University. He completed his Master in Mechanical Engineering in 2010 and his Ph.D in 2014. He worked in the study of tribological and mechanical characterisation of Metal Matrix Composite. He has also worked in National Institute of Technology, Sikkim from 2014 till 2017 before joining Jadavpur University. He has published more than 30 Journal and Conference Papers till date.

# Flex of Seminar:

# DR. B.C Roy Engineering College Durgapur

**Mechanical Engineering Department** 



Dr. Suman Kalyan Das Associate Professor Mechanical Engineering Department Jadavpur University

Topic: Exploring Green Tribology: Enhancing Sustainability in Mechanical Systems and Materials



Seminar on "Tribology" organized by Mechanical Engineering Department On 22<sup>nd</sup> March,2024



Dr. Shouvik Ghosh Assistant Professor Mechanical Engineering Department Jadavpur University

Topic: Study of Mechanical and Tribological Properties of Al-FA and Al-RHA Metal Matrix Composites

Coordinator: Dr. Rupali Assistant Professor, Mechanical Engineering Department

# **Post Seminar Report:**

Dr. B. C. Roy Engineering College organized a one day seminar on "Tribology" on March 22, 2024 in Mechanical Engineering Departmental seminar hall(Digital Class room). The seminar focused on latest issues in Tribology.

The programme started at 10:30 am with the welcome address by Dr. Rupali, Asst. Professor ,Mechanical Engineering Department. The dignitaries on the dias were Prof. Dr. Suman Kalyan Das, Associate Professor, Department of Mechanical Engineering , Jadavpur University and Prof.Dr. Shouvik Ghosh, Assistant Professor, Department of Mechanical Engineering, Jadavpur University. Opening remarks and introduction of the programme was given by Prof. Dr. Chandan Chattoraj, Mechanical Engineering Department. He highlighted the purpose of seminar on Tribology.

Prof. Dr. Suman Kalyan Das gave lecture on the Exploring Green Tribology: Enhancing Sustainability in Mechanical Systems and Materials and Prof. Dr. Shouvik Ghosh gave lecture on the Study of Mechanical and Tribological Properties of Al-FA and Al-RHA Metal Matrix Composites.



Prof. Dr. Rupali, Coordinator of seminar, BCREC



Prof. Dr. Suman Kalyan Das delivering his Lecture, Jadavpur University



Prof.Dr. Shouvik Ghosh delivering his Lecture ,Jadavpur University



**Brainstorming session** 



**Brainstorming session** 

# **List of participants:**

# DR.B.C.ROY ENGINEERING COLLEGE, DURGAPUR MECHANICAL ENGINEERING DEPARTMENT

			ATTENDA	NICE SHEET		
		Name	minar date Depained	d 22/03/2024 Designation	Signature	
	Sine	Landau Parker		Student	Birmons coullant	
	1	DINESH CHRAR	LVI.	St water the		
	2	RAMYADELP BARMAN	ME	Student	Ramy oder Roman-	
	3	SAMBMAN AR CHATTERNE	mE	Stude at	Soulter chatteries	
	ч	CLIMAN ROY	m.E	Student	Suman Roy.	
	15	Dhritab Rog	WE	Student	Thritals Roy	
	6.	MRITTIKA BISWAS	ME	Student	Mrittika Biswas	
	7.	SUBRATA PAL	ME	Student	Subrata Pal	
	8.	RITURAJ YADAV	ME	Student	Rituraj Yodan.	
	9.	VICKY KUMAR MANDA	ME	Student	Vicky Runar Mondal	
	10.	VICKY KUMAR	ME	Student	wicky kumer.	
	11.	SOMNATH DAS	WE	Student	Sommath Das	
	12.	ANISH GHOSH	ME	Student	Arrish ghosh	
	13	PAMEL NAMAK	ME	Student	Payel Nowak	
	14	RATEEN RANJAN	ME	faculty	Dejin.	
	15	ARKA BANERJEE	ME	Faculty	(damje	
	16	RAKESH BISWA	ME	Faculty	Benal	
	17	KOUSHIK CHATTERS		faculty	Chattery	
	18	Ragho Singh	ME	Student	Ragho Singh	
	19	Rugho Singh SUBHAS CHANDRA MOT	ME	Frentty	Gmor	



Dr. B. C. Roy Eright, Gollege, Durgapur

# DR.B.C.ROY ENGINEERING COLLEGE DURGAPUR MECHANICAL ENGINEERING DEPARTMENT ATTENDANCE SHEET Seminar dated 22/03/2024 Designation (Faculty/Student) Name Department Signature DR. M. KUNDO AP ME Arijit Banerjee Associate Bog. ME Parthe Santhi Laks Francis TA . ME

Sino

20

21.

Carly Springer and Large





60 TO TO

Timestaring

Name

Emolt

Mighle roc

Golgeg name: Department

STICROS 6.0221 GREPHOTO SEAR DOOR

STICROS 6.0221 GREPHOTO

Parameter Parameter Communication Communicat

1 Har Address of Made of the Control of the Control

Adaptive the Control of Control o





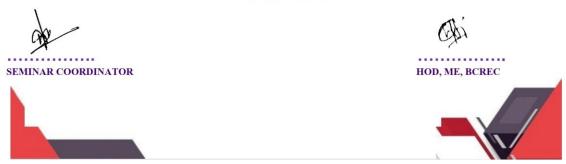
# **Certificate for Participant:**



This Certificate is Presented to

# Prof./Dr./Mr./Ms DEBPRIYO SINHA ROY

For actively participating in seminar on "Tribology" organized by Mechanical Engineering Department, Dr. B.C.Roy Engineering College, Durgapur On 22/03/2024



**Conclusion remarks:**We are happy that Mechanical Engineering Department, BCREC are able to arrange the session and resource persons accepted our request. The session was good and very informative to all the participants.



Dr. Rupali <rupali@bcrec.ac.in>

# **Invitation-Resource person for seminar on Tribology**

8 messages

Dr. Rupali <rupali@bcrec.ac.in>

Thu, Mar 7, 2024 at 4:28 PM

To: sghosh.mech@jadavpuruniversity.in, sumankalyan.das@jadavpuruniversity.in

Dear Sir,

I am pleased to inform you that the Department of Mechanical Engineering, Dr. B. C. Roy Engineering College, Durgapur is organizing a seminar in the month of March 2024. It's a great honour for me to invite you to act as a resource person and deliver a lecture on Tribology.

On behalf of the Mechanical Engineering Department department, I once again invite you to act as a resource person for our upcoming seminar.

We look forward to your presence.

Thanking you

Dr. Rupali Asst. Professor Mechanical Engineering Department BCREC ,DURGAPUR

Phone: 9832477775/ 7585886117

**Shouvik Ghosh** <sghosh.mech@jadavpuruniversity.in> To: "Dr. Rupali" <rupali@bcrec.ac.in>

Thu, Mar 7, 2024 at 5:29 PM

Respected Madam,

Firstly I would like to accept the invitation and acknowledge the same. As discussed with you I will send the abstract of my lecture along with a short bio by tomorrow.

Thank you, Regards,

Shouvik Ghosh Assistant Professor, Department of Mechanical Engg, Jadavpur University

SUMAN KALYAN DAS <sumankalyan.das@jadavpuruniversity.in>

Thu, Mar 7, 2024 at 5:55 PM

To: "Dr. Rupali" <rupali@bcrec.ac.in>

Dear Madam,

I am pleased to accept the invitation. However, I will be giving a talk on - Exploring Green Tribology: Enhancing Sustainability in Mechanical Systems and Materials

Please find attached the abstract as well as my biosketch as requested.

Kind regards Suman Kalyan Das [Quoted text hidden]

Locus

Dr. Suman Kalyan Das

Associate Professor Dept. of Mechanical Engg. Jadavpur University Kolkata - 700 032



# **Bio Sketch and Abstract.docx** 39K

**Shouvik Ghosh** <sghosh.mech@jadavpuruniversity.in> To: "Dr. Rupali" <rupali@bcrec.ac.in>

Mon, Mar 11, 2024 at 2:15 PM

Respected Madam,

Please find attached the Abstract of the talk along with a small bio and photo.

#### Thanks and regards,

[Quoted text hidden]

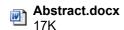
--

[Quoted text hidden]

#### 3 attachments



Shouvik Ghosh.jpg 127K





Bio\_SvG.docx 140K

# SUMAN KALYAN DAS <sumankalyan.das@jadavpuruniversity.in>

Wed, Mar 13, 2024 at 7:03 PM

To: "Dr. Rupali" <rupali@bcrec.ac.in>

Dear Madam,

Please find attached the train tickets for both me and Prof.Shouvik Ghosh.

Also, kindly arrange our talk schedule so that we can wrap up within 1:00 pm and leave for the station by 2PM.

# kind regards

Suman

[Quoted text hidden]

### 2 attachments



HWH to DGR.pdf



DGR to HWH.pdf 252K

### Dr. Rupali <rupali@bcrec.ac.in>

To: SUMAN KALYAN DAS <sumankalyan.das@jadavpuruniversity.in>

Fri, Mar 15, 2024 at 11:25 AM

Dear Sir,

Please send your account details for the honorarium transfer to your account.. Regurds

Dr. Rupali Asst. Professor Mechanical Engineering Dept. BCREC,Durgapur [Quoted text hidden]

### Dr. Rupali <rupali@bcrec.ac.in>

Fri, Mar 15, 2024 at 11:38 AM

To: Shouvik Ghosh <sghosh.mech@jadavpuruniversity.in>

Dear Sir,

Please send your account details for the honorarium transfer to your account...

Regurds

Dr. Rupali

Asst. Professor

Mechanical Engineering Dept.

BCREC, Durgapur

On Thu, Mar 7, 2024 at 5:29 PM Shouvik Ghosh <sghosh.mech@jadavpuruniversity.in> wrote:

[Quoted text hidden]

### SUMAN KALYAN DAS <sumankalyan.das@jadavpuruniversity.in>

Mon, Mar 18, 2024 at 3:15 PM

To: "Dr. Rupali" <rupali@bcrec.ac.in>

Dear Madam,

Please find below my account details -

Suman Kalyan Das A/c No. - 30210307815 Bank - State Bank of India (Jadavpur University Branch) IFSC code - SBIN0000093

Kind regards

Dr. Suman Kalyan Das

[Quoted text hidden]



Dr. Rupali <rupali@bcrec.ac.in>

# Invitation-Resource person for seminar on Tribology

**Shouvik Ghosh** <sghosh.mech@jadavpuruniversity.in> To: "Dr. Rupali" <rupali@bcrec.ac.in>

Wed, Mar 20, 2024 at 2:11 PM

Respected Madam,

Account details are as follows

Account Name: Shouvik Ghosh

A/C No: 32217046589

Branch: Jadavpur University, State Bank of India

IFS Code: SBIN0000093

Thanks & Regards,

[Quoted text hidden]

\_

[Quoted text hidden]

# Dr. B.C. Roy Engineering College, Durgapur

(Internal Note-sheet)

Memo No: BCREC/2022-23/Dept File No/P2

Date: 12.03.2024

To: General Secretary/Principal/Vice Principal/Registrar

From: Dr.Rupali, Assistant Professor, Mechanical Engineering Department

Sub: Budget approval request for upcoming seminar.

1 am writing to you to request for budget approval for the seminar to be held on 22/03/2024. The budget to arrange the entire program will reach to a sum of Rs. 3700/-. Details are given below:-

Sl.no.	Name	Account Details	Honorarium
1	Dr. Suman Kalyan Das	Suman Kalyan Das A/c No. – 30210307815 Bank - State Bank of India (Jadavpur University Branch) IFSC code - SBIN0000093	Rs.2000/-
2	Dr. Shouvik Ghosh	Account Name : Shouvik Ghosh A/C No : 32217046589 Branch : Jadavpur University, State Bank of India IFSC Code : SBIN0000093	Rs.1700/-

Details of guests and Topic of lectures are given below

# 1.Dr. Suman Kalyan Das

Associate Professor

Department of Mechanical Engineering

Topic: Exploring Green Tribology: Enhancing Sustainability in Mechanical Systems and Materials.

# 2. Dr. Shouvik Ghosh

Assistant Professor,

Department of Mechanical Engineering,

Topic: Study of Mechanical and Tribological Properties of Al-FA and Al-RHA Metal Matrix

Composites

I request you to please approve the budget and release the funds.

Thanking yo

Dr. Rupali

Forwarding	Pomarks	Comments by other officers required for clarifications/Comments	Signature with date
Office	The obove amont	Abbroved Amount (5. Ki. 5/70	01.2
HOD, ME	(12200 + 13,100) = READ	for clarifications/Comments  Approved Amount (5.4.5) for FY 2023.21 = Rs. 50000/- Expenditure (11) Late)= Rs. 4920   =	C 1812 2000
Registrar	36353 5 0 0		
Vice Principal			
Principal			A STATE OF THE PARTY OF THE PAR