



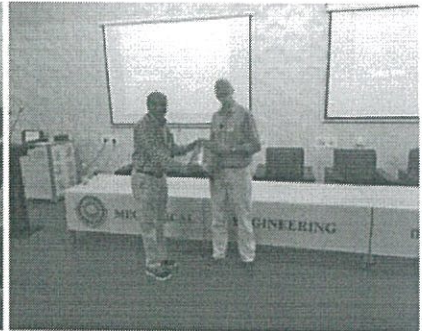
GRIET/6C/G/19-20



**EVENT SUMMARY REPORT**


<b>Griet/Other institutes/Organization Address:</b>	GRIET				
<b>Department</b>	ME	<b>Professional Body</b>		<b>Institutional Body</b>	
				Technology and Innovation Cell	
<b>Nature of the Event</b> (Workshop / Seminar / Guest Lecture / Tech Talk/FDP/GD/ Training Program / Quiz / Presentation/Conference/ Industry Visit/Any Co & Extracurricular Activities)	Guest lecture				
<b>Title / Theme of the Event</b>	Strength and Fracture of Materials, Human Body Implants and Biological Materials				
<b>Details of the Coordinator &amp; Designation</b>	B. Shankarachary, Asst. Professor				
<b>Event Dates/Days</b>	From	To	No. of Days		
	25-02-20	25-02-20	01		
<b>Details of the Speaker / Guest</b> Organization Address:	Prof. David Taylor, School of Eng., Trinity College Dublin, Ireland				
<b>Participants</b> (Teaching Faculty / Non-Teaching Faculty / Students)	No.of Faculty	No. of UG students	No.of PG Students	No.of outside participants	Total Participants
	10	56	10	-	76
<b>Faculty Names &amp; Designation</b>	Dr. N Sateesh (Professor), Dr. L Jayahari(Professor), Dr. K Venkateswarlu(Professor), Dr. Raman Goud(Professor), D S Nagaraju(Assoc. Professor), J V Suresh(Asst. Professor), L Gopinath(Asst. Professor), S Aparna(Asst. Professor), AAnitha Laxmi(Asst. Professor), V Balaji(Asst. Professor).				

<p><b>Summary of the Event</b></p>	<p><b>Programme Context</b>  Orthopaedics  Knee Replacements  Tissue Engineering Scaffolds  Cardiovascular  Artificial Intelligence in Healthcare  Understanding How We Think  Biomechanics: Sports and Car Accidents  Biomimetics: Seeking Inspiration from Nature  Research Projects: Examples  Erosion of Tissue by Surgical Mesh  Mesh Erosion Testing  Mechanical Properties of Natural Materials  Bamboo Joints  Test Results  Finite Element Analysis  Damage and Repair in Human Bone  Fatigue Testing Inside the Scanning Electron Microscope</p>
<p><b>IRG (in rupees)</b></p> <p><b>Deposited A/C no A/C name and date and other details</b></p> <p><b>(enclose proof-A/C statement)</b></p>	<p style="text-align: center;">-</p>
<p><b>Expenditure (in rupees)</b></p> <p><b>(Enclose proof-bills)</b></p>	<p style="text-align: center;">-</p>
<p><b>POs attained with this Event</b> (number and description)</p>	<p>a. Ability to apply knowledge of mathematics, science and fundamentals of Mechanical Engineering.</p> <p>b. Ability to work effectively as an individual or in a team and to function on multi-disciplinary context.</p>

**Photographs of the event**  
(Hard copy and Soft copy)



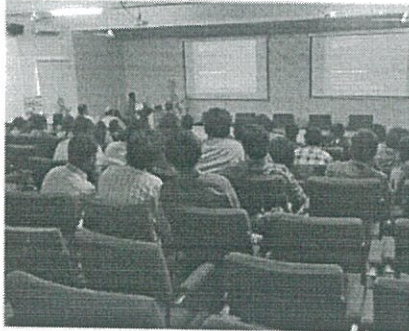
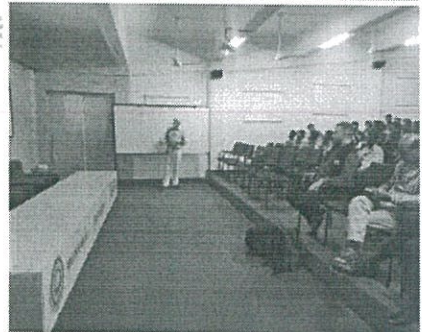
 **tc** Expert Talk on 

 **Strength and Fracture of Materials, Human Body Implants and Biological Materials**

By  
**Prof. David Taylor**  
School of Eng., Trinity College Dublin, Ireland

Date: 29th February, 2020 Venue: Seminar Hall (012), IV-Block, GRIF 5


Organized by  
**TECHNOLOGY AND INNOVATION CELL**  
**DEPARTMENT OF MECHANICAL ENGINEERING**  
**GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
(Autonomous)



**Proofs:**  
1. Certificates copies  
2. Profile of Speaker  
3. PPT/Material as applicable. etc.,

Attached

  
Signature of Coordinator

 29/2/2020  
HOD/M/E  
Signature of HOD

## Profile of Speaker

### **David Taylor**

Trinity Centre for Bioengineering, Engineering School, Trinity College Dublin  
Phone: (01) 8961703; Fax: (01) 6795554; email: dtaylor@tcd.ie

### **CAREER PROFILE (Education and Employment)**

#### **Education**

Secondary: Adwick School, Doncaster, UK  
University: B.A., M.A. (Natural Sciences) Cambridge University 1977  
PhD Cambridge University 1981  
ScD Cambridge University 2003

#### **Employment**

1980-1982: Post-Doctoral Research Assistant: Cambridge University  
1983-1992: Lecturer, Dept. of Mechanical and Manufacturing Engineering, Trinity College, Dublin.  
1992-2008: Associate Professor in Materials Engineering, Trinity College, Dublin.  
2008- present Professor of Materials Engineering, Trinity College Dublin  
2010- present Head, Dept of Mechanical & Manufacturing Engineering, TCD

### **Professional Honours and Distinctions**

Member of the Royal Irish Academy (2009)  
Chartered Engineer (1985)  
Fellow of Trinity College, Dublin (1989)  
Fellow of the Institute of Engineers of Ireland (2003)  
Fellow, Royal Academy of Medicine in Ireland (1994) (President, Bioengineering Section 1994-1996)  
Member, Association of Consulting Forensic Engineers (1992); Director (2007 - )  
Visiting Professor, Politecnico di Torino, Italy (1997; 2001; 2006)  
Distinguished Visiting Professor, University of Ferrara, Italy (2007-present).  
Haughton Medal (Royal Academy of Medicine in Ireland) 2006  
Member, European Society for Engineering and Medicine (2006-)  
Honorary Member, the Italian Group of Fracture (2009- )

### **Activities as an Editor, Referee and External Examiner**

Editor-in-Chief Journal of the Mechanical Behavior of Biomedical Materials (2007-)  
Guest Editor for Fatigue and Fracture of Engineering Materials and Structures, special Irish issue 1996  
Guest Editor for International Journal of Fatigue, two special issues (Biomaterials, 2001 and 2007)  
Guest Editor for Engineering Fracture Mechanics, two special issues (Biomaterials 2007 and Theory of Critical Distances 2007)

Member of the editorial board of the following journals:

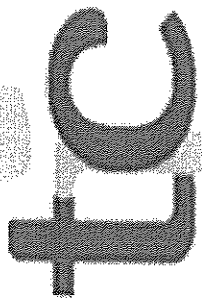
International Journal of Fatigue,

Structural Durability and Health Monitoring

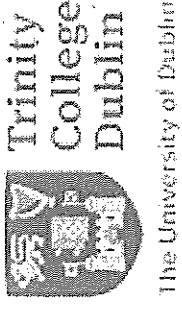
Engineering Failure Analysis

Frattura ed Integrità Strutturale (Fracture and Structural Integrity: journal of the Italian national organization for fracture research IGF).

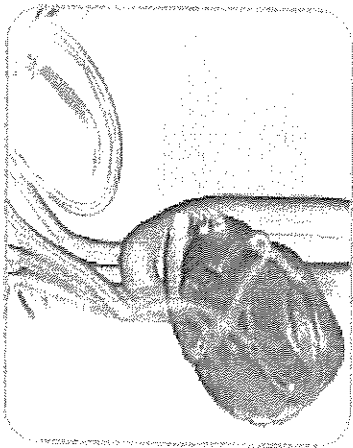
Referee for the following journals: Nature Materials, International Journal of Solids and Structures, Fatigue and Fracture of Engineering Materials and Structures; J.Phys.Conden.Matter; International Journal of Fatigue, Engineering Fracture Mechanics, International Journal of Fracture, International Journal of Mechanical Sciences, Journal of Biomechanics, Biomechanics and Modeling in Mechanobiology, Journal of Bone and Joint Surgery, Journal of Orthopaedic Research, Journal of Biomaterials and Computer Methods in Biomechanics and Biomedical Engineering



Expert Talk



ON



# *Strength and Fracture of Materials, Human Body Implants and Biological Materials*

By

**Prof. David Taylor**

School of Eng., Trinity College Dublin, Ireland

Date: 25th February, 2020

Venue: Seminar Hall (4312),  
IV-Block, GRIET

Organized by

**TECHNOLOGY AND INNOVATION CELL**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY**

(Autonomous)

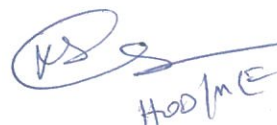


# Strength and Feature of Materials, Human Body Implants and Biological Material.

25/2/20

Student attendance

S.No	Roll.No	Student Name	Year (II/III/IV)	Sign
1.	18241A0311	B. Shanon	II	Shanon
2.	18241A0328	C. Nanya	II	C. Nanya
3.	18241A0333	K. Praneetha	II	Praneetha
4.	18241A0379	Keerthana G.	II	Keerthana
5.	18241A0389	Jayashri K	II	Jayashri
6.	18241A0388	Jai Damna	II	Jai Damna
7.	18241A0377	D. Hari Chandana	II	Chandana
8.	18241A0378	E. Gayathri	II	Gayathri
9.	18241A0362	A. Prathyusha	II	Prathyusha
10.	18241A0373	C. Sonika	II	Sonika
11.	18241A0398	M. Shreya Choudhan	II	Shreya
12.	18241A0393	M. Rukitha Valli	II	Rukitha
13.	17241A03A2	P. Geethasree	III	Geethasree
14.	17241A03A3	R. Vasuki	III	R. Vasuki
15.	17241A03T1	B. Ramya Raveena	III	Ramya
16.	17241A0372	B. Akshitha	III	Akshitha
17.	17241A0388	Mansi Jagtap	III	Mansi
18.	17241A0369	Bhagya biswal	III	Bhagya
19.	17241A0370	B. Tejaswi	III	Tejaswi
20.	18245A0317	K. Nikhila	III	Nikhila
21.	18245A0312	Y. Shirani	III	Shirani
22.	18245A0310	S. Sai Tejaswini	III	Sai Tejaswini
23.	18245A0304	K. Madhuri	III	K. Madhuri
24.	17241A03A4	R. Shruthi	III	Shruthi
25.	18241A03A4	V. Nikhil	II	Nikhil
26.	18241A03B4	Ch. Sravan Kumar.	II	Sravan
27.	18241A0314	C. S. Sivakumar	II	Sivakumar
28.	18241A0370	K. Gopi Chand	II	Gopi Chand
29.	18241A0307	B. Sri Harshavardhan	II	Sri Harshavardhan
30.	18241A0322	A. Vardhan Kumar	II	Vardhan
31.	18241A0325	J. Harshat	II	Harshat
32.	18241A0382	Yeshureetha G	II	Yeshureetha
33.	18241A0369	B. Senthosh	II	Senthosh
34.	18241A03B8	Vamsi	II	Vamsi
35.	18241A03A6	R. Aman Ray	II	Aman Ray
36.	18241A0399	P. Sai Pradeep	II	Pradeep
37.	18241A0320	G. Suresh	II	Suresh
38.	18241A0302	A. Sravan	II	Sravan
39.	18241A0216	D. Hemant	II	Hemant
40.	19245A0310	P. Sai Kiran	II	Sai Kiran
41.	19245A0308	L. Sowmith	II	Sowmith
42.	19245A0309	P. Venkatesh	II	Venkatesh
43.	19245A0311	U. Anjaneyulu	II	Anjaneyulu

  
 HOD/MCE







