

## DEPARTMENT OF PHYSICS

**Title** : Science Academies' Lecture Workshop on Scope of Non-linear Physics

**Date** : 5 & 6.01.2017

**Resource Person** : Prof. M. Lakshmanan, Professor of Eminence & DST Ramanna Fellow, DAE Raja Ramanna Fellow, Centre for Nonlinear Dynamics Bharathidasan University, Tiruchirapalli.

**No. of Participants** : 179

**Focus on** : **Entrepreneurship & Skill Development**

**Outcome** : **Students got benefitted knowing the wide range of research activities of Non-linear Physics and their applications.**

### **Report:**

The Department of Physics organised a two day Science Academies' lecture workshop on "Scope of Non-linear Physics", sponsored by **Indian Academy of science , Bangalore , Indian National science Academy, New Delhi , The National Academy of science, Allahabad** on **5<sup>th</sup> and 6<sup>th</sup> of January 2017**. Nearly 179 students and staff of various colleges in an around Madurai participated in it.

The workshop covered a wide range of research activities in *Fundamental and Applied Nonlinear Physics*. Nonlinear physics is a catch-all term for the study of the dynamics of driven, open, non-equilibrium systems. **In physical sciences, a nonlinear system is a system in which the output is not directly proportional to the input.** We encounter nonlinear effects in everyday life and in nature all the time. Particularly fascinating examples are water waves and hydrodynamic phenomena ranging from mixing and turbulence of waves to Tsunami waves, and collective phenomena such as cloud formation, flocking, neural network structures and group dynamics.

The workshop was highly interdisciplinary in nature encompassing area such as Nonlinear optics, Nonlinear dynamics, Nonlinear electronic and soliton in Bose-Einstein condensed state. It provides ample exposure to cutting edge research and recent trends of Nonlinear Physics.

Mrs. Arulmozhi Packiaseeli, Head, Department of Physics, welcomed the gathering. The workshop was presided over by Rev. Dr. Sr. Fransisca Flora, Secretary, Fatima College. The inaugural address was given by Prof. M. Lakshmanan, Professor of Eminence & DST Ramanna Fellow DAE Raja Ramanna Fellow, Centre for Nonlinear dynamics, Bharathidasan University, Tiruchirapalli. After the formal inaugural function, there were a series of technical sessions in which the following resource persons shared their expertise on various avenues of nonlinear physics.

Prof. M. Lakshmanan, Professor of Eminence & DST Ramanna Fellow DAE Raja Ramanna Fellow Centre for Nonlinear dynamics Bharathidasan University Tiruchirapalli delivered lectures on “Nonlinear dynamics”.

Prof K.Porsezian, Professor, Department of Physics, Pondicherry University, Puducherry, the convener of INSA sponsored lecture workshop, highlighted the recent research and application in the field of nonlinear optics.

Dr. K. Murali, Associate Professor, Department of Physics, Anna University, Chennai, gave his lectures on “Nonlinear electronics”. Dr P. Muruganandam Associate Professor, Department of Physics, Bharathidasan University, Tiruchirapalli, delivered lecture on “Solitons in Bose Einstein condensates”.

Registration Form		Participants	Science Academies' Lecture Workshop On
Name :		<ul style="list-style-type: none"> <li>No registration fee for participation</li> <li>Number of participants limited to 150 and will be selected on first-come-first served basis</li> <li>Participants will be selected from the community of students, scholars, scientists and faculty in colleges, research institutions and universities</li> <li>Lunch will be provided</li> <li>No lodging facility will be provided by the organizers and participants have to take care of their stay by themselves</li> </ul>	<p><b>SCOPE OF NONLINEAR PHYSICS</b></p>  <p><i>Sponsored by</i>  <b>INDIAN ACADEMY OF SCIENCES</b>  Bangalore  <b>INDIAN NATIONAL SCIENCE ACADEMY</b>  New Delhi  <b>THE NATIONAL ACADEMY OF SCIENCES</b>  Allahabad</p> <p><b>05-06 January, 2017</b>  Organised by</p>  <p><b>Department of Physics</b>  <b>Fatima College (Autonomous)</b>  (College with Potential for Excellence)  ( Re-Accredited with " A" Grade by NAAC )  Madurai - 625 018.</p>
Gender :			
Qualification :			
Designation :			
Institution :			
Address :		<p><b>Convener</b>  <b>Prof. K. PORSEZIAN</b>  Professor  Department of Physics  Pondicherry University  Puducherry</p> <p><b>Co-Ordinator</b>  <b>Mrs. S. ARULMOZHI PACKIASEELI</b>  Head, Department of Physics  Fatima College (Autonomous)  Madurai - 625 018</p>	
Mobile No. :			
Email id :			
Signature (HOD/Principal)	Signature (Participant)		
<p>The filled in registration form may be sent to  <b>MRS. S. ARULMOZHI PACKIASEELI</b>  Head, Department of Physics  Fatima College (Autonomous)  Madurai - 625 018  E-mail : physicsfatimacollege@gmail.com  Mobile : +91 7639828222</p>			

## PHOTOS



## THE INAUGURAL FUNCTION



### **LIST OF PARTICIPANTS**

S.No	Name
1.	ABIRAMI B
2.	AROCKIA EZHILARASI A
3.	AROCKIA SINDHIYA J
4.	BOOMA B
5.	ESTHER ELIZABETH P
6.	ESTHER JEBAKUMARI K A
7.	EVELIN MONICA A
8.	INDHUMATHI R
9.	INFANT PREETHI J
10.	JAMILA ROSHAN U M
11.	JASLINE J
12.	JESI A
13.	JOSELIN MARY SWEETA R
14.	KARTHIGA D
15.	KARTHIKA N
16.	LILLYMARY K
17.	MAHABOO RIZWANA R
18.	PAVITHRA M
19.	PRASANNA E
20.	RAMYA P C
21.	RUBY S
22.	SINDHUJA R
23.	SRIKOWSICA M
24.	STEFFINA FERNANDO C
25.	SUSHMITHA M
26.	THANGA REVATHY S
27.	ARUNADEVI M S
28.	AUILYADEVIMYTHILI R
29.	BANU K
30.	BRINDHA R
31.	DONY DHANYA X
32.	GRACE MARTINA L
33.	JENITTA SELVI J
34.	JOTHI LINGA BHAVANI S
35.	KIRUTHIGA ESWARI T M
36.	KOHILA VENI K
37.	LAVANYA M
38.	MARIA ANUSHA A
39.	MATHU MATHI M
40.	MONISHA A
41.	MUTHUVENKADESHWARI M
42.	NIRMALA RANI J
43.	NIVETHA T
44.	PARKAVI T
45.	PRIYANKA R
46.	RADHIKA D



47.	REJINA K
48.	ROSHAN THASNEEMA
49.	SAHANA S
50.	SATHYA PRIYA S
51.	SHALINIPRIYA M
52.	SHOBICA B
53.	TAMILMANI M
54.	THARANI K
55.	VIOLET GEYOPRIYA MARY A
56.	AAFRIN HAZAANA S
57.	AARTHYS
58.	ALINAMARY S
59.	ANITHA R
60.	ANNIE JOSEPHINE R
61.	ARUL CINCIYA C
62.	ARUL PRINCILA F
63.	BHAVITHRASRI C
64.	BRINDHAS
65.	BUVANESWARI B
66.	CATHERINE CHITRA A
67.	DELMA KIRUBA PRINCYS
68.	DIANA VINNARASI S
69.	FRANCIS REGINA G M
70.	GOKILA M
71.	JERINA
72.	JOANA PREETHI A
73.	KALAI NILA K
74.	KALAIVANI T
75.	KALPANA M
76.	KAMATCHI P
77.	KARTHIKA M
78.	KARUNYA K
79.	KRISHNA DEVI K
80.	LALITHA A
81.	MALINI V
82.	MEENAKSHI P
83.	MEERA NAACHIYAR R
84.	MUTHU KRISHNAVENI M
85.	NANCY DIANA B
86.	NANDHINI S
87.	NASRINE BANU M
88.	NAZREEN NISHA M
89.	NEENITA INFANTA J
90.	PAVITHRA K
91.	PRAVEENA M
92.	RAJESWARI V
93.	RAMYA K
94.	RUPADHARSHINI N
95.	SANGEETHAPRIYA CI
96.	SANTHIYA LAKSHMI S

97.	SELVAMUTHUMARI K
98.	SHAKINA AFRIN M
99.	SHARMILI T
100.	SHERIN J
101.	SHINY FATHIMA MARY A
102.	SHYAMALADEVI S
103.	SINDHYA P
104.	SOFIA J R
105.	SRI GAYATHIRI DEVI SK
106.	VAISHNAVIV
107.	VASINI G
108.	VIDHYA M
109.	ABINAYARANI B
110.	AKILA V
111.	ANNIE ASWINI SHERIN J
112.	ARUNA J
113.	BEULA CHRISTY J
114.	BHAVANI SRI BHARATHI S
115.	BUELA CELIN L
116.	CAROL FRANCY JENOVA J
117.	DHARANI @ ROOBA PRIYA B
118.	DHILIBA A
119.	DHIVYA M
120.	DHIVYA BHARRATHI J
121.	FAHMEETHA FATHIMA S
122.	FAZMIN A
123.	IKSHANA RABIYA N
124.	JANANI V
125.	JANU S
126.	JASMINE ROSY A
127.	JENIFER LINCY X
128.	JERRIES INFANTA J
129.	JEYAPRIYA M A
130.	LEON SINDHIYA J
131.	LOURDU JENIFER K
132.	MEENAKKSHI M
133.	MEGARAJ BEGAM M
134.	MICHLINE SANTHIYA M
135.	NARTHANA P
136.	NIKSHALA A
137.	NILA A
138.	NIVETHA S
139.	PATHUVAI VIMALI M
140.	PERARASI ELAKKIYA E
141.	PRATHIMA J
142.	PRAVEENA R
143.	PREETHA A
144.	RAGAVI K
145.	REGINA S
146.	RENE MARY AMIRTHA S

147.	ROSELIN FERNANDEZ C
148.	SRI VARSHINI S
149.	STARLINA P
150.	STELLA PIONA LEON K
151.	SUBALAKSHMI R
152.	SUPALDI SEBASTINA P
153.	SWATHI BOSENI K
154.	SWETHA R
155.	VALLI S
156.	VIRGIN PRAGASPATHI J
157.	YAZHINI T
158.	S. CHITHRA DEVI
159.	V. ANJALI DEVI
160.	N. RASHA SHANAZ
161.	V. ANJALI DEVI
162.	TEJASWI ASHOK HEGDE
163.	R. VEERASUBAM
164.	S. YUVARAJ
165.	A. SURESH
166.	P. VANI
167.	S.M. PAVITHRA
168.	L.B. DEEPIKA
169.	T. A. NAGASANKARI
170.	G.B. PAVITHRA
171.	R. DIVYA
172.	R. KARTHIESWARI
173.	M. VAHINI
174.	V. RAJINI
175.	K. DHARANIPRIYA
176.	Dr. P.S. BINDU
177.	Ms. K. THILAGA
178.	Dr. A. YELILARASI
179.	Mrs. M. SHANTHI