



FATIMA COLLEGE (AUTONOMOUS), MADURAI-18

DEPARTMENT OF PHYSICS

Title : Inter Department Special Lecture on “Molecular Surface Physics: Towards Blood based detection of Alzheimer ’s disease”

Date : 29-07-2022

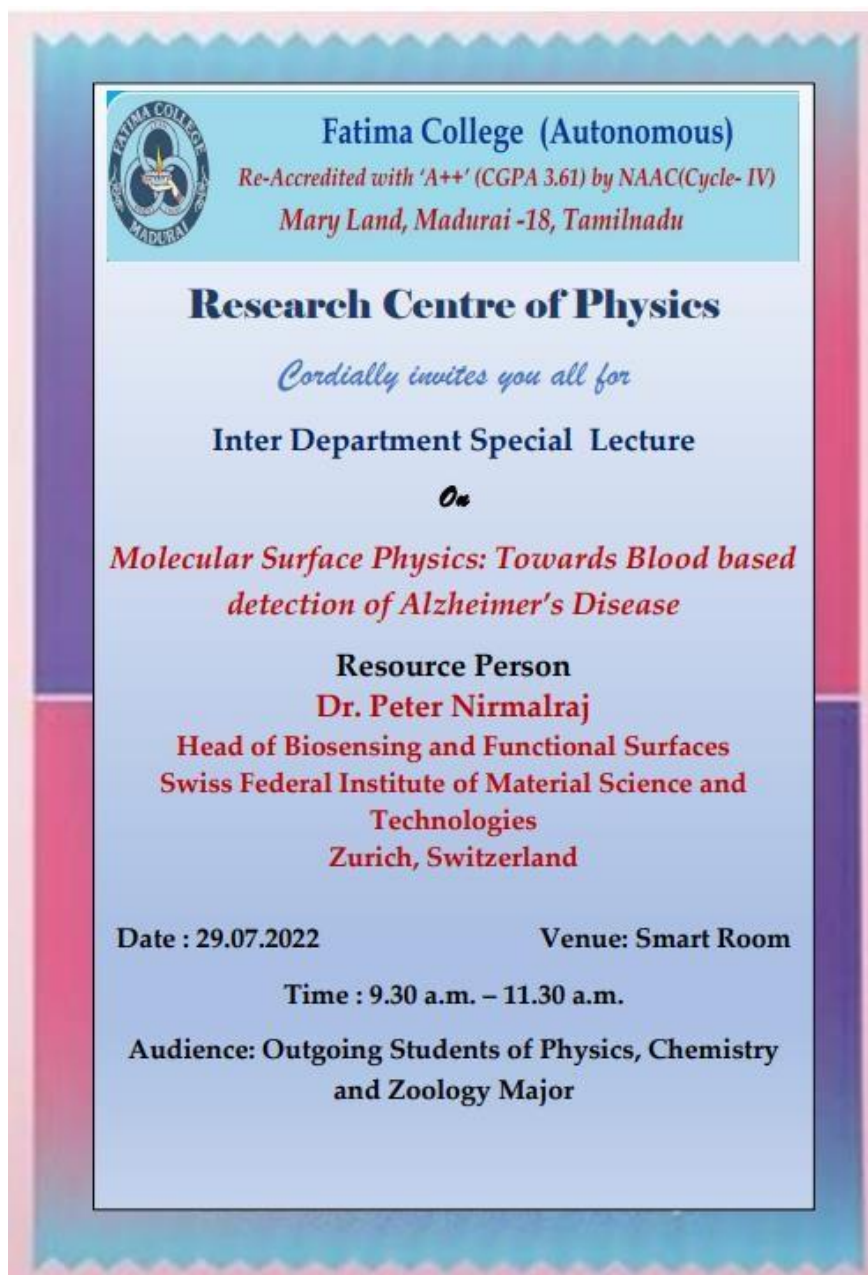
ResourcePerson/s : **Dr. PETER NIRMALRAJ**
Head, Biosensing and Functional Surfaces,
Swiss Federal Institute of Material Science and Technologies,
Zurich, Switzerland.

No. of Participants : 101

Focus on : **Entrepreneurship/Skill Development Outcome** : The resource person gave an eye opening session on the broad area of Molecular Electronics. The students gained knowledge on prominent characterization techniques of ‘Scanning Probe Microscopy’. The special lecture emphasized on the recent experiments using scanning tunnelling microscopy and spectroscopy, where the spin state can be controlled by electric field, electric current or light. The students were motivated to do research in Universities abroad.

Report:

Invitation/Brochure



Text

The Inter Department Special Lecture began at 9.30 am on 29th July, 2022 with a prayer song followed by Welcome Address by Ancitta (III B.Sc. Physics). The students of II PG Physics, II PG Chemistry, II PG Zoology, III UG Physics, Research Scholars (Physics) and Faculty members gathered in the Smart Room.

The Resource person, Dr. Peter Niraj Nirmalraj, Head, Bio sensing and Functional Surfaces, Swiss Federal Institute of Material Science and Technologies, Zurich, Switzerland

gave a wonderful and interesting lecture on “Molecular Surface Physics: Towards Blood based detection of Alzheimer’s disease”.

Dr. Peter spoke elaborately on the experimental techniques of Scanning Probe Microscope. He emphasized the need for Interdisciplinary (Physics, Chemistry and Zoology) Science and Technology for innovations in research, which in turn leads to contribution to the wellness of the world. From the self-organization of birds’ flight to self-organization of molecules, Sir, gave a vivid lecture.

Dr. Peter’s important tips on “brain diahorrea” and “memory shrinkage” which leads to Alzheimer’s disease is noteworthy. His talk highlighted the need for physical activities, healthy diet and deleting negative residuals in the mind, which pave way for a healthy life.

Elite Peter Nirmalraj from
Elite IBM lab Zurich
gave a thought provoking and motivating lecture.

After the lecture, there was a good interaction between students and Dr. Peter. The meeting came to an end with the National Anthem.

Photos/ScreenShots (if online) with Captions



Dr. Peter Nirmalraj rendering an inspirational lecture on Blood based detection of Alzheimer’s disease



Lat:9°56'55.9" Long:78°05'56.2" SW214° 125M Fatima College (Autonomous)



Lat:9°56'55.8" Long:78°05'55.7" N355° 147M Fatima College (Autonomous)



Students gaining knowledge on the characterization techniques of Scanning tunnelling microscopy and spectroscopy

NamelistofParticipants

S. No.	Reg.No	Name(FullnamewithInitials)
II M. Sc. PHYSICS		
1.	2021MSCP01	AGNESJ
2.	2021MSCP02	ARUNAASHREEV
3.	2021MSCP03	BATRICKSJEENAM
4.	2021MSCP04	BENCIAIMMACULATEJ
5.	2021MSCP05	FAHEERAPARVEENN
6.	2021MSCP07	JESLINEFELSIAR
7.	2021MSCP08	JOYCEJESINTHAM
8.	2021MSCP10	KOWSALYAR
9.	2021MSCP11	LIBIYAVINNARASIT
10.	2021MSCP12	MARIAJASMINESHINYA

11.	2021MSCP13	MARIASHINOLAF
12.	2021MSCP14	MONISHAM
13.	2021MSCP16	PAPINAP
14.	2021MSCP17	POORNIMADEVIB
15.	2021MSCP18	PREMA V
16.	2021MSCP19	PRINCYJ
17.	2021MSCP20	SHINEYPRECILLAS
18.	2021MSCP21	SIVAPRIYADHARSHINIR
19.	2021MSCP25	SUNDARIB
20.	2021MSCP26	ANGELINSNEGAS
21.	2021MSCP27	SIVAPRIYAM
22.	2021MSCP28	ABINAYAA
III B. Sc. PHYSICS		
23.	2020P01	ABARNAJ
24.	2020P02	ABINAYAC
25.	2020P03	ABISHAS
26.	2020P04	AILEENMATHARASIA
27.	2020P05	ANCITTAD
28.	2020P06	ANUSUYAMARY R
29.	2020P07	BERSHINAP
30.	2020P08	BHUVANESHWARIV
31.	2020P10	DEVADHARSHINIT
32.	2020P11	DIVAINPENNIJ
33.	2020P12	DONCYPUNITHAJ
34.	2020P15	JASMINFATIMAG
35.	2020P16	JEFFRINAJ
36.	2020P17	JEYASHREE B

37.	2020P18	KAVITHAP
38.	2020P19	KEERTHANAC
39.	2020P20	KIRUTHIKAR
40.	2020P22	LAVANYAP
41.	2020P23	NANDHINIDEVIV
42.	2020P24	NANDHINIK
43.	2020P25	NITHYASHREEG
44.	2020P26	RITHIKAM
45.	2020P27	ROSHALR
46.	2020P28	ROSHINIT
47.	2020P29	SAFREENASHIMAS
48.	2020P30	SALIMASULTHANAM
49.	2020P31	SHALINIPRIYAJ
50.	2020P32	SWEETLINSHERLYC
51.	2020P33	SYLVIAJOANJ
52.	2020P34	THIYATHRARISENR
53.	2020P35	VISHNUVARDHINIJ
54.	2020P37	HARISHIFRINSN
55.	2020P38	MATHUMITHAR
56.	2020P39	NANCYBEAULHR
57.	2020P41	SANTHIYAS
II M. Sc. CHEMISTRY		
58.	2021MSCC01	ASHABANUA
59.	2021MSCC02	BHAVANIM
60.	2021MSCC03	DEEPTIN
61.	2021MSCC04	HEMADHARSHINIR
62.	2021MSCC05	INFANTAJENIFERA

63.	2021MSCC06	JANANIH
64.	2021MSCC07	JANANIR
65.	2021MSCC08	JASMINEJENOBHAD
66.	2021MSCC11	LOGESHWARIK
67.	2021MSCC13	MAGIMAGRACEV
68.	2021MSCC14	MANSOORULSAJITHATHASLEEMM
69.	2021MSCC15	MATHUMEENAP
70.	2021MSCC16	PERARASIR C
71.	2021MSCC17	SANTHANAKARTHIKAS
72.	2021MSCC18	SHEEBAK
73.	2021MSCC19	SNEKAK
74.	2021MSCC20	SOUNTHARYAV
75.	2021MSCC21	SRIHARSHINIM
76.	2021MSCC22	SUBASHINIM
77.	2021MSCC23	SUBASHINIV
78.	2021MSCC24	YUVARANIK
79.	2021MSCC25	FEBIAC
80.	2021MSCC26	MARIYAJOSEPRINCIYAJ
81.	2021MSCC27	JOYJULIEANSLIN A
82.	2021MSCC28	SABITHRAS
83.	2021MSCC29	SHANMUGAPRIYAP
84.	2021MSCC30	VISWATHIKAK
85.	2021MSCC31	SNEHAPS
II M. Sc. ZOOLOGY		
86.	2021MSCZ01	ANTOSHINYBRIJITHAB
87.	2021MSCZ01	KIRUBAROOBALAA

88.	2021MSCZ04	PAVITHRAR
89.	2021MSCZ05	SMITHAE.V
IM.Sc. ZOOLOGY		
90.	2022MSCZ01	AKSHAYATS
91.	2022MSCZ02	ANJUGAM P
92.	2022MSCZ03	ANTONETTESIENAP
93.	2022MSCZ04	HIMALINIK
94.	2022MSCZ05	JEMIMAGLADYP
95.	2022MSCZ06	MERCILINP
96.	2022MSCZ07	SARASWATHIB
97.	2022MSCZ08	SATHYARANIL
98.	2022MSCZ09	THAHSINBANUS
99.	2022MSCZ10	VARALAKSHMIK
100.	2022MSCZ11	YOGESHWARIG
101.	2022MSCZ12	REXLINEA

A. Sheela Vimala Rani

Signature of HOD

