



**One Day National Webinar
on
“Nanostructured Materials for Controlling
Flow of Light”
5th June, 2020
5 PM to 6.30 PM**



**Organized by
DEPARTMENT OF PHYSICS
Sri Y.N.College (A), Narsapur
In Association with IQAC**



SRI Y N COLLEGE (AUTONOMOUS)

(Affiliated to Adikavi Nannaya University)

Thrice Accredited by NAAC at 'A' Grade

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Narsapur-534275, Andhra Pradesh



National Webinar

on

**"Nanostructured Materials
for Controlling the Flow of
Light"**

5th June, 2020

5:00 PM- 6:30 PM

INVITED SPEAKER



Prof. B. V. R. Tata
Professor,
School of Physics,
University of Hyderabad

WHO CAN ATTEND?

- ✚ Faculty/Scholars from Physics & Electronics disciplines.

WEBINAR TIMINGS

- ✚ 5:00 PM – 6:30 PM

MODE OF DELIVERY

- ✚ Live web session through Zoom.

NO REGISTRATION FEE

- ✚ Selection of participants will be based on first come first serve, since the number of participants is limited to 300.

REQUIREMENTS FOR THE WEBINAR

- ✚ Desktop/Laptop/Smartphone with good Internet speed and necessary data pack.

CERTIFICATE

- ✚ E-Certificate shall be provided to all participants.

REGISTRATION LINK

<https://forms.gle/s2QMKfSdyeQd3CQp8>

Organised by

Department of Physics & Department of Electronics

in association with IQAC







Introduction of Webinar by Dr C. Satyanarayana Rao, Secretary & Correspondent, Sri Y N College, Narsapur



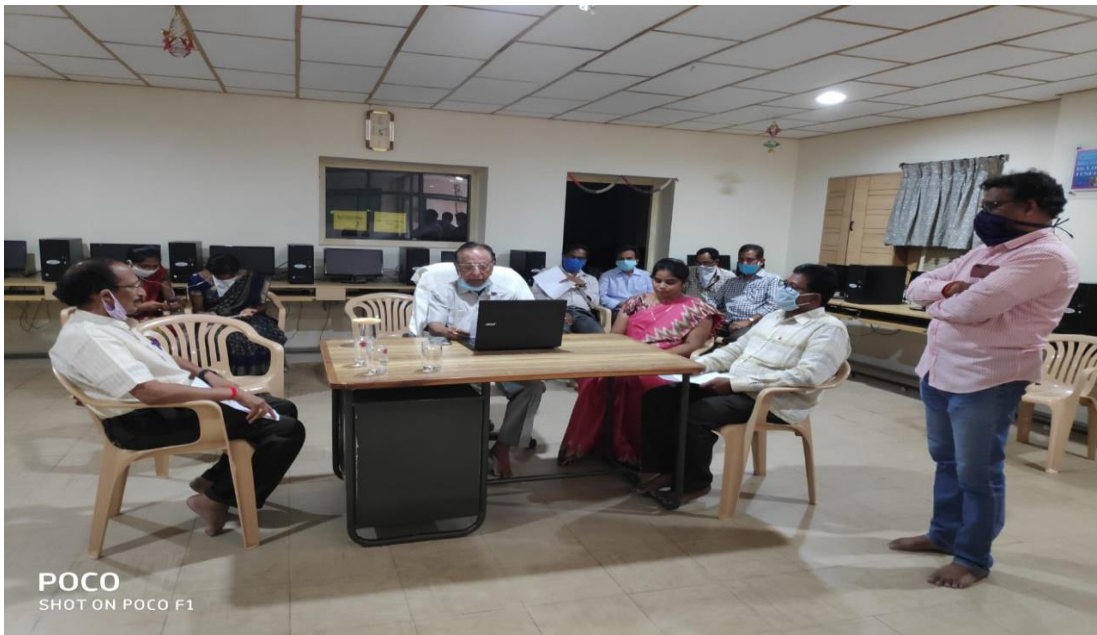


Introduction of Webinar by Dr C. Satyanarayana Rao, Secretary & Correspondent, Sri Y N College, Narsapur





Introduction of Webinar by Dr C. Satyanarayana Rao, Secretary & Correspondent, Sri Y N College, Narsapur

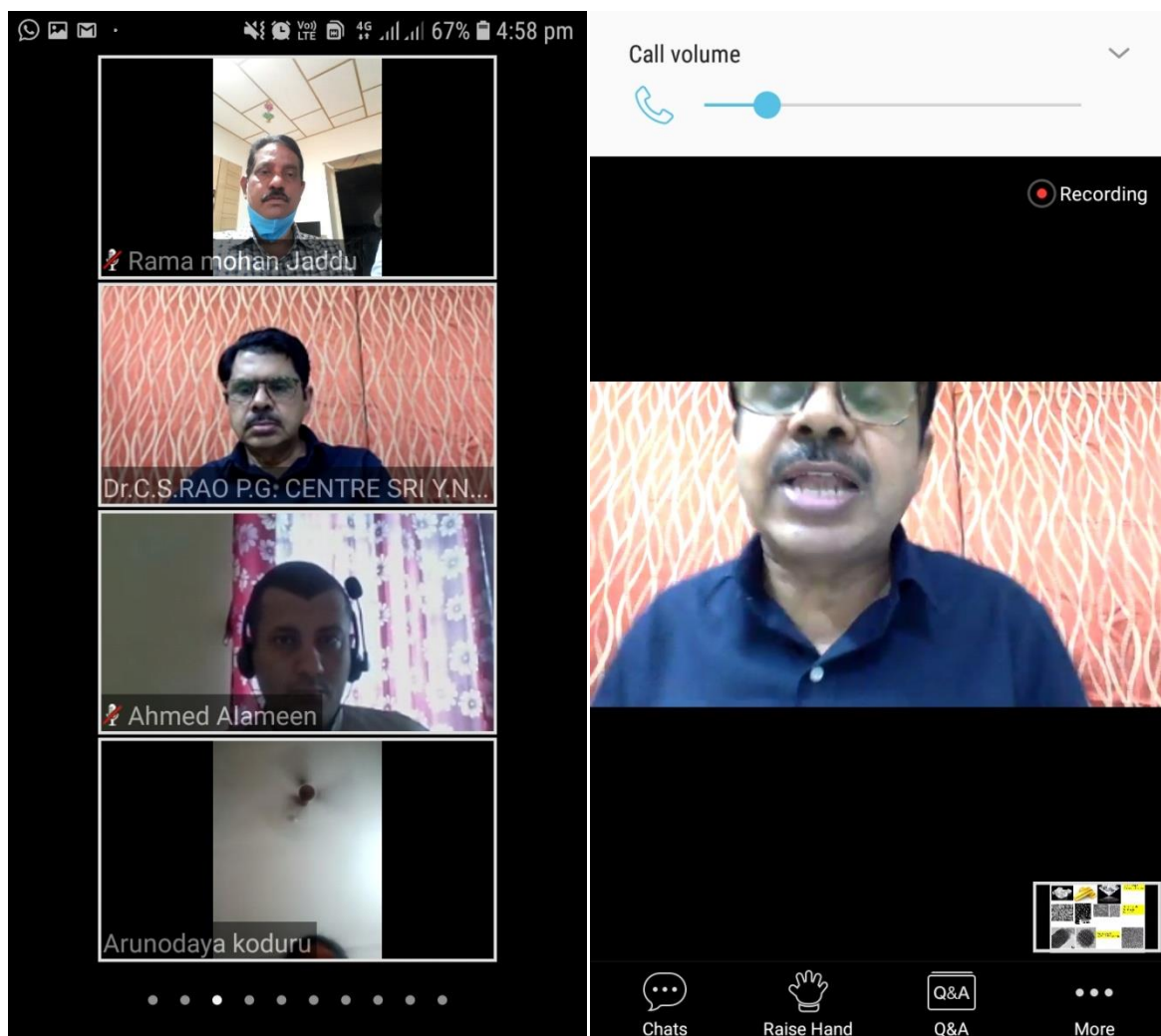




Objective and Resource Person introduction by R V Subba Rao, Academic and Research Advisor, Sri Y N College, Narsapur







Resource Person Dr. G V R Tata demonstrating Nanostructured materials to the participants.



 Zoom
 






WELCOME
 TO
NATIONAL WEBINAR
 ON
**NANO STRUCTURED MATERIALS
 FOR CONTROLLING THE FLOW OF
 LIGHT**
 5TH June 2020
 ORGANIZED BY
Dept. of PHYSICS & ELECTRONICS
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 NARSAPUR - 534275

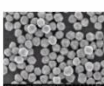
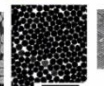
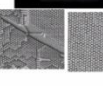


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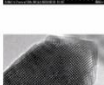
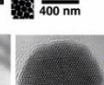
 Recording


Bulk Crystals,
Macroscopic scale

Nano Crystals,
Nano scale
1nm = 10⁻⁹ m

Atomic scale
1Å=0.1nm = 10⁻¹⁰ m



Glass/Amorphous

Dr.C.S.RAO P.G. CENTRE SRI Y.N. COLLEGE's scr...

Recording

Advantages of Photonics over Electronics

- Photons travel thousands times faster than electrons in computer chips (Velocity e^- : $\sim 10^6$ m/s; photon : $\sim 10^8$ m/s)
- Wider bandwidth (i.e. more transmission channels)
($f_e \sim 10^{10}$ Hz, $f_{\text{photon}} \sim 10^{15}$ Hz)
- Immunity to electromagnetic interference
- Less signal attenuation and phase distortions (less number of repeaters, less cost, less power consumption etc.)
- Photonic devices consume much less power

Speaker Video

Zoom Leave

Recording

Collaborators:
 Dr. J. Brijitta
 Dr. R.G. Joshi
 Mr. Deepak Kumar Gupta
 Mr. D. Karthickeyan
 Prof. Junpei Yamanaka,
 (Nagoya City University, Japan)

Collaborators @UOH:
 Mr. V. Sivaram
 Mr. Saisavdas
 Ms. Saranya Naryanan



Thank U for your kind attention

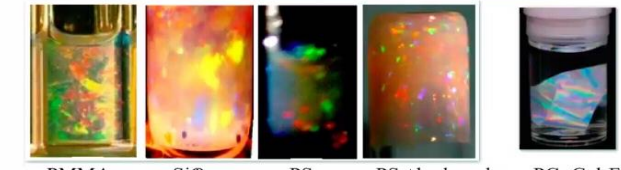
Speaker Video

Chats Raise Hand Q&A More


Recording


PCs in Lab Through Colloidal Route

Tata et al/ Current Sci. 103, 1175 (2012)



PMMA SiO₂ PS PS+hydrogel PC- Gel-Films





a) 21°C 32°C 34°C 35°C

b) pH 7.0 pH 11.0

NIPAM Thermo-responsive Microgel Crystals

pH-responsive

Speaker Video

The Nobel Prize in Physics 2009

"for groundbreaking achievements concerning the transmission of light in fibers for optical communication*"

"for the invention of an imaging semiconductor circuit – the CCD sensor"





Photo: Richard Spworn

Charles K. Kao

1/2 of the prize

Standard Telecommunication Laboratories
Harlow, United Kingdom;
Chinese University of Hong Kong,
Hong Kong, China

b. 1933
(In Shanghai, China)




Copyright © National Academy of Engineering

Willard S. Boyle

1/4 of the prize

Bell Laboratories
Murray Hill, NJ, USA

b. 1924
(In Amherst, NS, Canada)



Copyright © National Academy of Engineering

George E. Smith




1/4 of the prize

Bell Laboratories
Murray Hill, NJ, USA

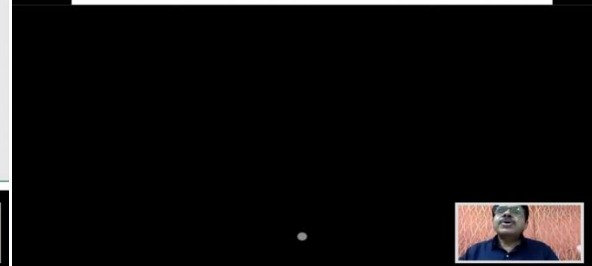
b. 1930



Nobel Prize in Physics 2018
 For for groundbreaking inventions in the field of laser physics

one half to **Arthur Ashkin** "for the optical tweezers and their application to biological systems", the other half jointly to **Gérard Mourou** and **Donna Strickland** "for their method of generating high-intensity, ultra-short optical pulses."



2:52 PM

Feedback Form for National Webina...

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Feedback Form for National Webinar on "Nanostructured Materials for Controlling the Flow of Light"

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all of you sir

From Archana to All Panelists And Attendees

voice is not clear

From BNSV PRASAD to All Panelists And Attendees

Hi Good evening to all

From DR.Y.B.Shankar to All Panelists And Attendees

Hi Good evening to all

From KD to All Panelists And Attendees

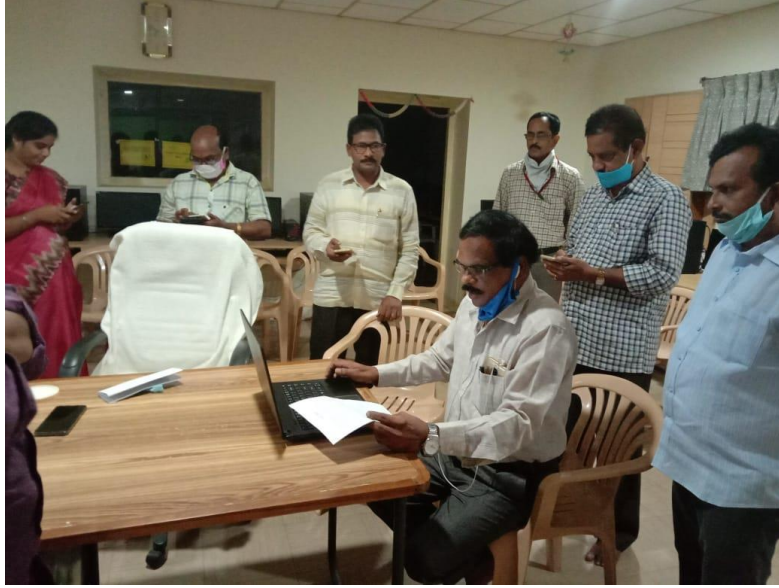
THANKING YOU SIR FOR YOUR NICE LACTURE....ITS A GREAT WEBINER...WE ARE ENJOYING

Send to: [All Panelists](#) ✓

Your text can only be seen by panelists

Send

Feedback form and Chatting of Participants



Vote of Thanks by Dr Ch Kanaka Rao





Vote of Thanks by Dr Ch Kanaka Rao





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Certificate of Participation

This certificate is presented to

Dr L Malleswara Rao

of Sri Y N College(Autonomous), Narsapur

for his/her active participation in the

National Webinar on "Nanostructured Materials for Controlling the Flow of Light"

Organised by Department of Physics & Department of Electronics

in association with IQAC on 5th June, 2020

Ch. Kanaka Rao

Dr. Ch. Kanaka Rao
Coordinator & HOD of Electronics

Dr. A. P. V. Appa Rao

Dr. A. P. V. Appa Rao
Convener & HOD of Physics

Smt. S. M. Maheswari

Smt. S. M. Maheswari
Principal

Dr. C. Satyanarayana Rao

Dr. C. Satyanarayana Rao
Secretary & Correspondent

Participation certificate