



Venture Center
100 NCL Innovation Park, Dr Homi Bhabha Road,
Pashan -411008

Technical Workshops Series – 2017

**Four-weekends workshop on
Scientific videos for JoVE, New Journal of Physics and other journals
- Organized by Venture Center -**

Learn	<ul style="list-style-type: none">• How to make videos for the Journal of Visualised Experiments, New Journal of Physics and journals that accept video as supplementary materials.• How to plan and execute video documentation of experiments, behavior of model organism, and data collection for ethological and ecological studies.• How to use video as an aid to presentations in conferences and teaching in classrooms															
Organized by	Venture Center															
For whom	PhDs, Post Docs and early career scientists															
When	<table border="1"><thead><tr><th>Days</th><th>Dates</th><th>Timings</th></tr></thead><tbody><tr><td>Saturday- Sunday</td><td>25- 26 Feb 2017</td><td>9 am – 5 pm</td></tr><tr><td>Saturday- Sunday</td><td>4-5 Mar 2017</td><td>9 am – 5 pm</td></tr><tr><td>Saturday- Sunday</td><td>11-12 Mar 2017</td><td>9 am – 5 pm</td></tr><tr><td>Saturday- Sunday</td><td>18-19 Mar 2017</td><td>9 am – 5 pm</td></tr></tbody></table>	Days	Dates	Timings	Saturday- Sunday	25- 26 Feb 2017	9 am – 5 pm	Saturday- Sunday	4-5 Mar 2017	9 am – 5 pm	Saturday- Sunday	11-12 Mar 2017	9 am – 5 pm	Saturday- Sunday	18-19 Mar 2017	9 am – 5 pm
Days	Dates	Timings														
Saturday- Sunday	25- 26 Feb 2017	9 am – 5 pm														
Saturday- Sunday	4-5 Mar 2017	9 am – 5 pm														
Saturday- Sunday	11-12 Mar 2017	9 am – 5 pm														
Saturday- Sunday	18-19 Mar 2017	9 am – 5 pm														
Where	Training room , Venture Center, 100 NCL Innovation Park, Dr. Homi Bhabha Road, Pune-411008															
Contact	Ms. Lipika Biswas Phone: +91-20-2586-5877 Email: eventsdesk@venturecenter.co.in Technical queries: Mr KP Madhu Phone: +91-8007976892 Email: scienceandmediaworkshops@gmail.com															
Cost	Rs 20,000 /- per head Maximum 15 seats ; First-come-first-serve. Application form available at - http://bit.ly/2iuR6JX More info on: http://www.venturecenter.co.in/workshops/ (Last date for receipt of applications 10 Feb 2017) Note:- <ul style="list-style-type: none">• Fees paid is not refundable and non transferable under any circumstances.• Organizers reserve the right to accept or refuse or delay registrations to optimize the composition of the group and to maximize learning for all participants.															



Venture Center
100 NCL Innovation Park, Dr Homi Bhabha Road,
Pashan -411008

Introduction

In recent years, scientific communication has taken a new turn. Journals, such as the Journal of Visualised Experiments, demand video as primary form of publication and text is supplementary. Though there has been a rapid increase in scientific publications by Indian scientists in the recent years, out of the thousands of videos on scientific protocols already available on JoVE, only a few are Indian.

The New Journal of Physics provides an option for providing video abstracts. Many journals already allow video as supplementary material. Yet Indian authors rarely use these options.

This situation shows that there is a need to train scientists in the use of video as a medium of communication.

Many researchers working in ethology and ecology have already started recording their research data in video. Low cost recording devices, including those on mobile phones, make data collection easy. But unless relevant data is extracted and edited, video data remains un-communicated. With a little training in planning, structuring and editing, the content can be used effectively in presentations during conferences and lectures.

Some science faculty have also expressed interest in the use of video for teaching.

It is to meet these emerging demands that this workshop is organised.

You will need to come with your laptop and a camera for video.

The workshop is organised as a series of weekends such that if participants are prepared to work, they can have a reasonably good product of their own by the end of the month, while not encroaching on official work time.

To prepare the participants for the workshop and to help them complete the task undertaken during the workshop, there will be online guidance which starts one week before the workshop and continues for a month after the workshop.

Course Outline

Pre-production: Concept, research, content script, video script, screen play, story board
Process for writing scripts, demonstrations, practice
(Time for completing scripts and editing them collaboratively during week days)

Production: Camera, lighting, composition, audio recording.
Processes for shooting. Demonstrations, Practice
(Time for shooting a sequence or two during week days)

Post-production: Editing. Principles, demonstration, introduction to software, practice.
(Time to shoot and edit during weekdays)

Rough cut to fine cut: Music, sound effects, visual effects, mixing, credits
Review, Feedback, corrections, pretesting

Further online feedback and mentoring for the coming weeks.



Venture Center
100 NCL Innovation Park, Dr Homi Bhabha Road,
Pashan -411008

Course includes

- Theory and practical sessions
- One-on-one interaction with the expert
- Certificate of Participation issued by Venture Center
- Membership in events mailing list of Venture Center
- Tea and lunch at Venture Center cafeteria

***Please note, the participants will have to arrange for their own travel/local transport and accommodation and dinners.**

- For accommodation (standard and budgeted hotels) please visit:
<http://www.venturecenter.co.in/puneguide/standard.php>
- For accommodation (deluxe and luxury hotels) please visit:
<http://www.venturecenter.co.in/puneguide/deluxe.php>
- For local transport details visit:<http://www.venturecenter.co.in/puneguide/taxi.php>

Anchor faculty



K. P. Madhu is presently Science Writing Consultant to the multidisciplinary journal, *Current Science*. Besides writing, he produces science videos for different audiences. His productions include popular science programmes such as Turning Point and science education programmes for the UGC. One of the five videos from India that can be seen in JoVE is his.

He has written four books - one is popular science, the other three for training media professionals. Two of these were published by UNESCO and one by the Publication Division of the Ministry of Information and Broadcasting.

He has trained and groomed many media professionals to deal with science, and many scientists to communicate through media.

You can see more about him on scienceandmediaworkshops.wordpress.com



Venture Center
100 NCL Innovation Park, Dr Homi Bhabha Road,
Pashan -411008

Workshop Schedule			
Time	Session title	Lead	Venue
Day 1			
0900 – 0930	Registration		Foyer area
0930 – 0945	Introduction to the course and faculty	Dr. Manisha Premnath	Training Room
0945 – 1015	Introduction to participants and their needs & expectations		
1015 - 1045	Lecture 1- Introduction to the processes of video production, identification of critical areas, setting up feedback systems for quality management of the process.		
1045 - 1100	Agreement on objectives, timelines and agenda of the workshop		Training Room
1100 – 1130	Tea / Snacks break		Foyer area
1130 – 1300	Lecture 2 – Researching, re-searching and recce How to master and get control on content Demonstration of essential techniques Description and introduction to strategies and tools		Training Room
1300 – 1400	Lunch break		Cafeteria
1400 – 1500	Script – various forms various stages Discussion on the contents of the participants The variety of ways of tackling the script writing		
1500 – 1530	Tea break		Cafeteria
1530 – 1700	Formats for scripting Process of writing scripts		
Day 2			
0930 – 1000	Review, clarification of doubts		
1000 – 1100	Script editing – editing the content to create flows		Training Room
1100 – 1130	Tea break		Foyer area
1130 – 1300	Visualisation: Introduction to eidetic space and time, exercises		
1300 – 1400	Lunch break		Cafeteria
1400 – 1730	Exercise: Seeing the cuts Deconstructing sequences Sequencing the sequences: insights for structuring the content Demonstration and practice		
	Tea break will be between the session		Cafeteria



Venture Center
100 NCL Innovation Park, Dr Homi Bhabha Road,
Pashan -411008

Week 2 Day 3			
0900 – 0930	Review of work done, clarifications, feedback		
0930 – 0945	Introduction to cameras Evolution of technologies Digital options and opportunities		
0945 – 1100	Composition Line, tone, color, movement Rule of threes, diagonals, balancing the picture Neurophysiology of aesthetics Rasas and emotions		
1100 – 1130	Tea break		
1130 – 1300	Cropping exercise Composing exercise		
1300 – 1400	Lunch		
1400 – 1500	Lights Principles of lighting – single source, two sources, three pointing lighting Texture, colour, composition and lighting Emotions, moods and lighting		
1500 – 1530	Tea break		
1530 – 1700	Sound Soundscapes Microphones Recording, mixing Sound as a cementing material		
Day 4			
0900 – 0930	Review of work done		
0930 – 0945	Process of shooting Production Dynamics		
0945 – 1100	Practice Participants to take turns in playing the role of Director, Camera person, Sound person, light person and talent		
1100 – 1130	Tea break		
1130 – 1300	Shooting a sequence Line of action Angles and shot size Continuity Demonstration		
1300 – 1400	Lunch		
1400 – 1500	Practice of shooting action sequences in a lab		
1500 – 1530	Tea break		
1530 – 1700	Principles of animation		



Venture Center
100 NCL Innovation Park, Dr Homi Bhabha Road,
Pashan -411008

	Stop camera and other techniques for scientific visualisation		
Week 3 Day 5			
0900 – 0930	Review of work done, feedback and feedforward		
0930 – 1100	Principles of editing		
1100 – 1130	Tea break		
1130 – 1300	Editing Software From Windows MovieMaker to Adobe Premiere Introduction to Interface Demonstration		
1300 – 1400	Lunch		
1400 – 1700	Participants Practice with feedback and advice from trainer		
Week 3 Day 6			
0900 – 0930	Review of work done, feedback and feedforward		
0930 – 1100	Marrying audio and video tracks		
1100 – 1130	Tea break		
1130 – 1300	Voice over, pace, texture, intonation, equalization, balancing Cutting interviews, split edit, demonstration		
1300 – 1400	Lunch		
1400 – 1500	Music track Rhythm, melody, harmony, counterpoint, polyphony Harmonic progressions and movement of ideas Mixing sound: Differences in resolutions of sound and image. No cuts, fades, demonstration		
1500 – 1530	Tea break		
1530 – 1700	Practice with feedback		
Week 4: Day 7			
0900 – 0930	Review of work done, feedback and feedforward		
0930 – 0945	Sync sounds, Sound effects, foley		
0945 – 1100	Video effects - principles		
1100 - 1130	Tea break		
1130 – 1300	Practice of fine cut with feedback		
1300 – 1400	Lunch		
1400 – 1700	Practice		
Day 8			
0900 – 0930	Review of work done		
0930 – 1100	Preview of videos Comments suggestions for improvement		



Venture Center
100 NCL Innovation Park, Dr Homi Bhabha Road,
Pashan -411008

1100 – 1130	Tea break		
1130 – 1300	Preview of videos Comments suggestions for improvement		
1300 – 1400	Lunch		
1400 – 15:30	Formative Research and Summative evaluation Pretesting the video Target group and audience The way forward		
1530 – 15:45	Tea break		
1545 – 1700	Evaluation of the workshop Closing ceremony		

About the organizers



Entrepreneurship Development Center (Venture Center) – a CSIR initiative – is a Section 25 company hosted by the National Chemical Laboratory, Pune. Venture Center strives to nucleate and nurture technology and knowledge-based enterprises by leveraging the scientific and engineering competencies of the institutions in the Pune region in India.

Venture Center focuses on technology enterprises offering products and services exploiting scientific expertise in the areas of materials, chemicals and biological sciences & engineering.

The Venture Center is a technology business incubator supported by DST-NSTEDB.

For more information, visit <http://www.venturecenter.co.in/>