

Indian Institute of Science
Bengaluru-560012.



DIVECHA CENTRE
OF CLIMATE CHANGE

Prof. S. K. Satheesh
Chairman
Divecha Centre for Climate Change
Professor, CAOS

Tel: (D) :91-80-2293 -3070
Tel: (O): 91-80-2293-3425
Fax: 91-80-2293-3425
Email: satheesh@caos.iisc.ernet.in

14th August 2017

To,
The Principal,

Sub: Invitation to Participate in 9th Climate Change Quiz Competition & the Climate Change awareness programme on Thursday 14th September 2017.
(Cash prizes of Rs.10,000/-, Rs.6,000/- and Rs. 4,000/-+ Trophy)

Dear Sir/Madam,

We are happy to inform you that the Divecha Centre for Climate Change, Indian Institute of Science is organizing the 9th Climate Change Quiz Program for students from Engineering and Science colleges at 10am to 5pm on Thursday 14th September 2017 at J. N. Tata Auditorium, Indian Institute of Science on the topic of Climate Change. We invite 5 students and 2 faculty from each college to participate in the program. The eligible participants are science and BE/B.Tech students. Our main goal is to promote awareness of Climate Science, Climate Change among college students and motivate them to pursue careers that address climate change and related issues.

The broad topic for the quiz is Climate Science. This will include questions on weather, climate, atmosphere and oceans. Rs.10,000, 6,000 and 4,000 will be awarded to the first, second and third teams, respectively. All the participants in the program will receive a certificate of participation. The program, rules and regulations for the competition are attached along with this letter.

We request you to confirm your participation by sending us the enclosed form or by registering online at <http://www.dccc.iisc.ac.in> by clicking "Climate Change Quiz 2017" by 31st August 2017. Due to the limited seating capacity at the auditorium, preference will be given to those who register early. For additional information, please contact us at 2293 3425, 2293 3427, 2293 2075 or chairman@dccc.iisc.ernet.in, dcccquiz2017@gmail.com.

Yours Sincerely,

(Prof. S. K. Satheesh)
Chairman,
Divecha Centre for Climate Change
Indian Institute of Science
Bengaluru - 560 012



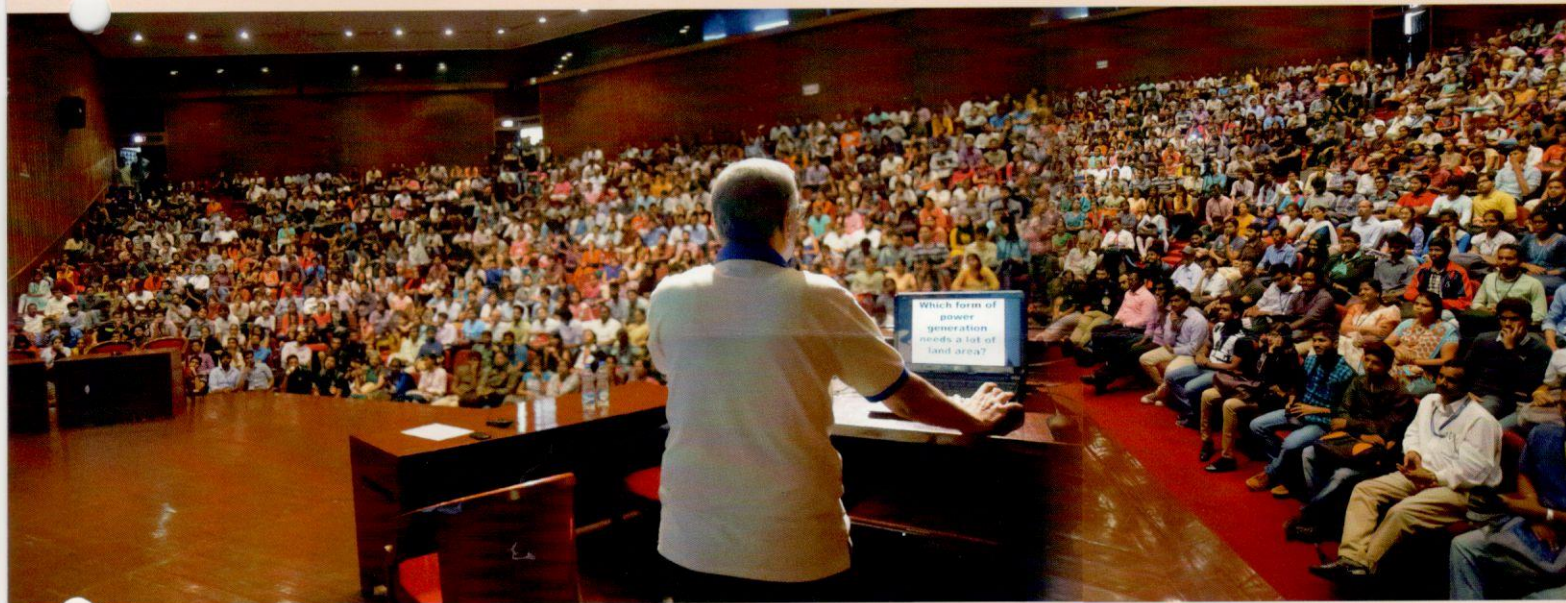
DIVECHA CENTRE FOR CLIMATE CHANGE
INDIAN INSTITUTE OF SCIENCE
BENGALURU



CLIMATE CHANGE QUIZ

for College Students*

on 14th September 2017, from 10.00 am to 5.00 pm
Venue: J. N. Tata Auditorium, Indian Institute of Science
Bengaluru



**All Science and Engineering students are eligible.
There is no fees for registration and participation.
For registration visit : <http://dccc.iisc.ac.in>*

**WIN
Fabulous
prizes!**

1st Prize : 10,000

2nd Prize : 6,000

3rd Prize : 4,000



*Organized by
Divecha Centre for Climate Change
Indian Institute of Science, Bengaluru-12*

Divecha Centre for Climate Change Indian Institute of Science Bengaluru



ELEVENTH JEREMY GRANTHAM LECTURE

CLIMATE CHANGE: TOO LATE FOR THE PARIS TARGETS?

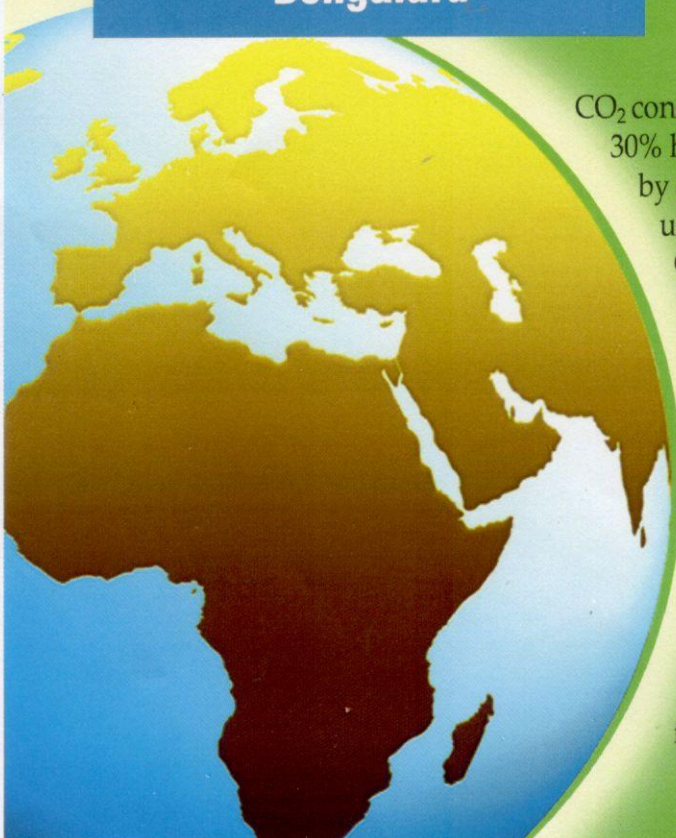
On 14th September 2017
from 2 pm to 3 pm
at J. N. Tata Auditorium
Indian Institute of Science
Bengaluru

Thomas Stocker

Professor
Climate and Environmental Physics
Physics Institute
University of Bern, Switzerland
Co-Chair, IPCC AR5 (WG-I)



CO₂ concentrations in the atmosphere are now unprecedented and 30% higher than during at least the last 800,000 years. This is caused by emissions of greenhouse gases from fossil fuel burning, land use change and deforestation. The Intergovernmental Panel on Climate Change (IPCC) concludes that *Limiting climate change will require substantial and sustained reductions in greenhouse gas emissions*. The close relationship between the warming and cumulative carbon emissions implies a global carbon budget. This is the most policy-relevant finding of the IPCC assessment report. It forms the scientific foundation for the historical Paris Agreement that aims at keeping the warming well below 2°C. With every decade of continuing CO₂ emissions about 0.5°C of climate target are lost. For the 2°C target only about 20 years remain until the carbon budget is exhausted and the target becomes unachievable. Science therefore illustrates the fierce urgency for global action to combat climate change.



Rules and Regulations

1. The entry is free for the competition. Registration of the teams can be done online at <http://dccc.iisc.ac.in/> by clicking "Climate Change Quiz 2017" under Home page. The deadline for registration is 31st August 2017.
2. The quiz will be conducted in English and will be in two stages.
A) Preliminary written test and B) Oral competition.
3. Each college can send a maximum of 5 students and 2 faculty to the program. Two students out of the 5 from each college will participate in the competition and the rest are invited to witness the program. The eligible participants are science and BE/B.Tech students. Teams from more than one Department of a college may also be allowed. In that case the team with the higher score from that college shall be selected, if eligible from the preliminary written test, for the oral quiz. However, more than one team from a department will not be allowed. Winners of previous years are not allowed. However, others from the same department/college would be allowed. Undergraduate students from IISc are not allowed since they represent the host institution.
4. Weather, Climate, atmospheric & ocean sciences and renewable energy resources such as wind and solar energy will be the main topic for both written test and oral competition.
5. The written test will be conducted at 12pm. Two members of the team will jointly answer the written test.
6. The written test will consist of 30 multiple-choice questions and the duration of the test is 30 minutes.
7. Top 3 teams from the written test will qualify for the final oral quiz.
8. Participants shall report at the reception hall of the J. N. Tata Auditorium, Indian Institute of Science between 10:00 and 11:00 am on Thursday 14 September 2017. Participants should bring their college identity cards.
9. Verdict of the Quiz Master will be final and binding.
10. There will be attractive prizes for the winners: cash prizes of Rs. 10,000, 6,000 and 4,000 will be awarded to the first, second and third teams, including Trophy respectively.
11. All the students participating in the competition will be given a participation certificate at the end of the competition.

All enquiries should be directed to 2293 2075 and 2293 3425 or 9449613110 / 9632965589 9739924481/9148885636 or emailed to divechaoffice@dccc.iisc.ernet.in or dcccquiz2017@gmail.com or chairman@dccc.iisc.ernet.in

Entry form for Climate Change Quiz

Name of the College with Address:

Name of the Department:

Email:

Phone Number:

Cell phone Number:

Names of the participants:

- 1) Quiz participant 1:
- 2) Quiz participant 2:
- 3) Participant 1:
- 4) Participant 2:
- 5) Participant 3:
- 6) Faculty 1:
- 7) Faculty 2:

Signature

Head of the Institution & College Seal

Please register online at <http://dccc.iisc.ac.in/> by clicking “Climate Change Quiz 2017” or those who cannot register online can also submit Entry Form to Divecha Centre for Climate Change, Center for Atmospheric and Oceanic Sciences, Indian Institute of Science, Bengaluru – 560012” by 31 August 2017 or mailed to dcccquiz2017@gmail.com.



Climate Change Quiz 2017

Organized by
Divecha Centre for Climate Change
Indian Institute of Science

14 September 2017 (Thursday)

Venue: J. N. Tata Auditorium
Indian Institute of Science, Bengaluru

TENTATIVE AGENDA

Program	Time	Remarks
Arrival and Registration	10:00-11.30	Students directly arrive at the J. N. Tata Auditorium Registration & viewing of posters, Science shows and demonstrations.
Written Test	12:00-1:00	Multiple-choice written test for selecting colleges for the final oral quiz. Each college shall be represented by 2 students
Working lunch	12:30-1:30	Students proceed to lunch after Registration.
Eleventh Jeremy Grantham Lecture on Climate Change	2.00-3.00	Prof. Thomas Stocker, Head of Climate and Environmental Physics, Physics University, University of Bern, Switzerland.
Oral Quiz	3:00-4:00	Final Oral Quiz for 3 colleges. Each college will be represented by 2 students
Prize and Certificate distribution	4:-5:00	Prize distribution

Sample questions

1. The global mean atmospheric CO₂ concentration in 2014 was approximately
 - a) 280 ppm
 - b) 350 ppm
 - c) 400 ppm
 - d) 450 ppm
2. The following aerosol absorbs sunlight and heats the atmosphere
 - a) Sulphates
 - b) Black carbon
 - c) Sea salt
 - d) None of the above
3. If V is the wind speed, the power generated by a wind mill is proportional to
 - a) V
 - b) V^2
 - c) V^3
 - d) \sqrt{V}
4. Biofuel is an example for
 - a) Fossil fuel
 - b) Carbon-neutral source of energy
 - c) Renewable source of energy
 - d) Both b and c

The summary for policy makers report and the "Frequently asked questions" brochure from IPCC Working Group I are excellent resources on climate science and they can be downloaded from http://www.ipcc.ch/pdf/assessment-report/ar5/wg1/WG1AR5_SPM_FINAL.pdf http://www.ipcc.ch/report/ar5/wg1/docs/WG1AR5_FAQbrochure_FINAL.pdf