

# ASCE INDIA 2020 CONFERENCE

SECOND ASCE INDIA CONFERENCE

ON

CHALLENGES OF RESILIENT AND SUSTAINABLE INFRASTRUCTURE DEVELOPMENT IN EMERGING ECONOMIES

March 02-04, 2020

Novotel Hotel, Kolkata, India

## PRPGRAMME SCHEDULE OF THE CONFERENCE

### March 02, 2020

09:00 AM-3:00 PM	Heritage Kolkata Tour
02:00 PM-5:30 PM	Registration
05:30 PM-7:00 PM	Inaugural Session



## Schedule of Plenary Sessions

### Venue: Eiffel II and Eiffel III

#### March 03, 2020

10:00 AM-11:30 AM	<b>I: Challenges of Civil Engineering Education in Emerging Economies</b>
12:30 AM-13:30 PM	<b>II: Challenges of Resilient and Sustainable Infrastructure</b>
14:30 PM-16:00 PM	<b>III: Challenges of Resilient and Sustainable Construction</b>
16:00 PM-18:00 PM	<b>IV: Challenges of Resilient and Sustainable Materials in Emerging Economies</b>

#### March 04, 2020

10:00 AM-11:30 AM	<b>V. Challenges of Resilient and Sustainable Water Resource Engineering</b>
12:30 AM-13:30 PM	<b>VI: Challenges of Resilient and Sustainable Environmental Engineering</b>
14:30 PM-16:00 PM	<b>VII: Challenges of Smart City Development</b>

## Schedule of Oral Presentation by Paper Contributors

Date	Room	09:00 – 11:00	11:15 – 13:15	14:15-16:15	16:30 – 18:30
<b>March 03, 2020</b>	Room 1 (Eiffel I)	<b>IA: Energy efficient planning for infrastructure development</b> [Paper ID: 1094, 672, 129, 85, 1023, 955, 876, 785]	<b>IIA: Energy efficient planning for infrastructure development</b> [Paper ID: 1030, 445, 752, 800, 116, 798, 515]	<b>IIIA: Safe and congestion free smart transport system</b> [Paper ID: 805, 701, 557, 65, 1067, 1064, 950, 634, 340]	<b>IVA: Safe and congestion free smart transport system</b> [Paper ID: 1132, 677, 165, 968, 698, 449, 395, 381, 379]
	Room 2 (Pierre I)	<b>IB: Urban renewal and asset management</b> [Paper ID: 127, 849, 131, 996, 144, 138, 917, 885]	<b>IIB: Management of industrial and hazardous wastes</b> [Paper ID: 694, 649, 797, 432, 1092, 1149, 1070, 414, 554, 836]	<b>IIIB: Disaster risk reduction and management</b> [Paper ID: 680, 967, 637, 366, 198, 59, 1017, 819]	<b>IVB: Disaster risk reduction and management</b> [Paper ID: 259, 216, 176, 255, 103, 932, 829, 60]
	Room 3 (Pierre II)	<b>IC: Approaches to sustainable water resources management</b> [Paper ID: 460, 726, 992, 702, 690, 488, 367, 121, 1012, 291]	<b>IIC: Approaches to sustainable water resources management</b> [Paper ID: 204, 1048, 552, 87, 376, 378, 920, 988, 744, 945]	<b>IIIC: Measures for climate change adaptation and resilience</b> [Paper ID: 972, 971, 827, 655, 612, 580, 256, 14, 186]	<b>IVC: Structure and soil dynamics</b> [Paper ID: 215, 193, 143, 70, 857, 263, 593, 767]
	Room 4 (Lille)	<b>ID: Innovations in water and wastewater treatment</b> [Paper ID: 970, 930, 117, 398, 219, 160, 78, 73, 1034, 671]	<b>IID: Innovations in water and wastewater treatment</b> [Paper ID: 959, 838, 1047, 533, 211, 132, 99, 66, 868, 1039, 170]	<b>IIID: Urban renewal and asset management</b> [Paper ID: 861, 796, 220, 56, 964, 951, 810, 606]	<b>IVD: Special Oral Session I</b> [Paper ID: 181, 244, 359, 385, 491, 506, 542, 591, 607, 650, 652, 743, 751, 774, 775, 777, 936, 979, 1015, 1051, 1021]
	Room 5 (Cannes)	<b>IE: Innovative construction materials and technologies</b> [Paper ID: 1125, 1072, 771, 404, 53, 45, 41, 1100, 1055, 1045]	<b>IIE: Innovative construction materials and technologies</b>	<b>IIIE: Innovative construction materials and technologies</b>	<b>IVIE: Innovative construction materials and technologies</b>

The paper ID mentioned here are the last few digits of the papers (example: "AIC2020-316-529" may be read as "529"). For any enquiry, please contact [convenor@asceic2020.org](mailto:convenor@asceic2020.org).

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Date	Room	09:00 – 11:00	11:15 – 13:15	14:15-16:15	16:30 – 18:30
			[Paper ID: 815, 532, 524, 354, 343, 296, 202, 197, 1002, 1001]	[Paper ID: 958, 879, 778, 754, 621, 334, 279, 247, 81, 55, 559]	[Paper ID: 31, 882, 860, 788, 463, 529, 360, 268, 245, 241, 1148]
	Room 6 (Lyon)	<b>IF: Structure and soil dynamics</b> [Paper ID: 1126, 937, 846, 174, 100, 1128, 728, 471, 433]	<b>IIIF: Structure and soil dynamics</b> [Paper ID: 158, 19, 1029, 684, 629, 578, 472, 468, 391]	<b>IIIF: Structure and soil dynamics</b> [Paper ID: 949, 136, 33, 187, 319, 326, 484, 745, 809]	<b>IVF: Structure and soil dynamics</b> [Paper ID: 839, 1146, 522, 699, 188, 446, 79, 22, 840, 912]
	Room 7 (Marseille)	<b>IG: Ground improvement techniques</b> [Paper ID: 157, 82, 841, 290, 239, 101, 137]	<b>IIIG: Recent trends in pavement design</b> [Paper ID: 944, 914, 723, 769, 1145, 1022, 546, 337, 1141, 783]	<b>IIIG: Recent trends in pavement design</b> [Paper ID: 675, 664, 579, 306, 222, 7, 37, 782, 644, 325]	<b>IVG: Recent trends in pavement design</b> [Paper ID: 1, 282, 441, 1153, 749, 648, 813, 572, 451, 240]
March 04, 2020	Room 1 (Eiffel I)	<b>VA: Safe and congestion free smart transport system</b> [Paper ID: 253, 200, 558, 1071, 935, 357, 168, 75, 139]	<b>VIA: Safe and congestion free smart transport system</b> [Paper ID: 528, 1134, 1052, 1074, 999, 669, 201, 338]	<b>VIIA: Ground improvement techniques</b> [Paper ID: 539, 490, 470, 355, 856, 105, 763, 770,]	<b>Valedictory ceremony</b>
	Room 2 (Pierre I)	<b>VB: Urban renewal and asset management</b> [Paper ID: 589, 939, 278, 614, 918, 816, 807]	<b>VIB: Regulatory and governance challenges</b> [Paper ID: 203, 619, 568, 209, 891, 437, 267, 611, 130]	<b>VIIB: Storm water and flood management challenges and case studies</b> [Paper ID: 584, 424, 380, 102, 49, 933, 189, 83]	
	Room 3 (Pierre II)	<b>VC: Air quality improvement</b> [Paper ID: 134, 1020, 341, 195, 1057, 1130, 1044, 787]	<b>VIC: Innovative solid waste utilization and recycling method</b>	<b>VIIIC: Innovations in water and wastewater treatment</b>	

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			[Paper ID:123, 991, 192, 89, 368, 476, 68, 943, 156]	[Paper ID: 205, 400, 1042, 1104, 520, 1032, 865, 1037, 1142, 113]	
	Room 4 (Lille)	<b>VD: Innovative construction materials and technologies</b> [Paper ID: 814, 658, 361, 387, 623, 543, 736, 331, 374, 613]	<b>VID: Ground improvement techniques</b> [Paper ID: 1007, 989, 27, 1105, 862, 191, 663]	<b>VIID: Innovative construction materials and technologies</b> [Paper ID: 384, 487, 501, 732, 811, 1062, 180, 928]	
	Room 5 (Cannes)	<b>VE: Innovative construction materials and technologies</b> [Paper ID: 161, 52, 883, 620, 294, 277, 1028, 301, 1091, 818]	<b>VIE: Aerodynamic effects on structure</b> [Paper ID: 207, 145, 164, 147, 258, 148, 364, 592, 630; 458]	<b>VIII: Aerodynamic effects on structure and Retrofitting of structures &amp; advanced analysis</b> [Paper ID: 685, 635, 18, 1143, 47, 141, 72]	
	Room 6 (Lyon)	<b>VF: Uncertainty analysis in civil engineering</b> [Paper ID: 135, 64, 149, 61, 369, 440, 250, 336]	<b>VIF: Structural health monitoring</b> [Paper ID: 464, 812, 779, 721, 523, 901, 895, 594, 489, 418]	<b>VIIIF: Structural health monitoring</b> [Paper ID: 67, 48, 182, 288, 477, 570, 645, 888, 981, 183, 892]	
	Room 7 (Marseille)	<b>VG: ICT for enhancing sustainability and resilience</b> [Paper ID: 1120, 618, 704, 218, 792]	<b>VIF: Retrofitting of structures and advanced analysis</b> [Paper ID: 456, 566, 977, 1136, 1115, 921, 993, 1066, 146]	<b>VIIIF: Special Oral Session II</b> [Paper ID: 169, 307, 327, 328, 435, 439, 465, 545, 654, 678, 845, 867, 871, 926, 934, 946, 963, 997, 1065, 1156, 508, 603, 124]	

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## Schedule of Poster Presentation by Paper Contributors

<b>Tuesday, March 03, 2020</b>	Poster Session I	11:30 a.m. – 01:00 p.m.	Paper ID: 181, 244, 359, 385, 491, 506, 542, 591, 607, 650, 652, 743, 751, 774, 775, 777, 936, 979, 1015, 1051, 1021
<b>Wednesday, March 04, 2020</b>	Poster Session II	11:30 a.m. – 01:00 p.m.	Paper ID: 169, 307, 327, 328, 435, 439, 465, 545, 654, 678, 845, 867, 871, 926, 934, 946, 963, 997, 1065, 1156, 508, 603, 124

## Podium Presentation Guidelines

Congratulations on the acceptance of your paper for a podium presentation at the Second ASCE India Conference at Kolkata. This is an excellent opportunity for you to share knowledge and information with your colleagues. It is important that you prepare an interesting and informative oral presentation for the conference, rather than just reading your paper to the audience. The following guidelines will assist you in doing this. Please review these guidelines so that you are informed as to how to prepare for your oral presentation.

### PREPARING

When you organize your talk, it may be helpful to begin by considering the following:

- 1. What is the topic of your presentation?**
  - a. Clearly state your topic.
  - b. Reiterate your topic in your visual presentation.
- 2. Who is your audience?**
  - a. ASCE is committed to promoting an inclusive professional organization. It is important that your presentation is geared to reach a diverse audience.
  - b. Make sure that the contents of your presentation, including audio and visual, do not contain any terms/language that could be considered offensive.
- 3. What is the objective of your presentation?**
  - a. Choose main points and objectives of your paper and elaborate on them.

### YOUR PRESENTATION

Once you have answered these questions, you may then begin to outline your presentation.

- 1. Introduction/Opening**
  - a. State your goals or ideas in general terms.
  - b. Share a relevant story, anecdote, or quote. Startle them with a statistic if appropriate.
  - c. Use a metaphor or comparison to your topic.
  - d. Use humor very carefully; it can be powerful and engaging, but jokes, as a particular form of humor, are risky and difficult to use successfully. Do not use humor that could be deemed offensive to a particular group.
  - e. Any one or a combination of these introductory methods may be used in your opening to draw your audience's attention to your presentation.
- 2. Body**
  - a. Discuss your main idea(s) in detail.
  - b. Use supporting examples.

- c. Use visual aids to reinforce.
- d. Reiterate your points.
- e. Develop a theme.

### 3. Closing

- a. Summarize your main points.
- b. Restate your goals, in a memorable way.
- c. Explain the value of your discussion.
- d. Reiterate the plan of action or any future plans.
- e. Return to the opening theme or story.
- f. Share another relevant story, anecdote, or quote.

## GUIDELINES FOR PREPARING YOUR VISUAL AIDS

Once you have prepared your podium presentation, you may then decide to incorporate visual aids into your presentation. Remember, "A picture is worth a thousand words."

1. There are many different types of visual aids available to you including power point presentations, videos, or posters.
2. Remember the acronym KISS (Keep it Short & Simple) and the old saying "Less is More".
3. Choose your visual aids carefully and make each one count.
4. Determine if the information really needs visual representation – will it really help to explain your point? Too much information may overwhelm an audience.
5. Prepare your visual aids so that everyone in the audience will be able to see the information. There is nothing worse than telling an audience, "Those in the back of the room won't be able to see some of the information on this slide, so I'll explain...".
6. Power Point
  - a. A Power Point Template has been prepared for your convenience. You can download this from the <http://www.asceic2020.org/submissions>. All presentations should be prepared in Microsoft Office.
  - b. All text, including text within graphics, is legible to those in the back of the room. Do not use fonts smaller than size 20.
  - c. Power Point presentations increase the capabilities of the presenter; however, a speaker does not want to be upstaged by his/her visual aids.
  - d. Please understand that your presentation time begins when you are introduced. Speakers will not be permitted to upload their presentations after the session begins. Please send your presentation to [technical@asceic2020.org](mailto:technical@asceic2020.org) by February 24, 2020. Use your paper ID as the file name.
  - e. If it is necessary to make changes to your presentation please work with your session moderator and provide them with the updated version prior to the start of your session.

### 7. Video



- a. Video can be used effectively to show examples.
- b. Show only top quality tapes, never those that have been copied over and over.
- c. Review your tape ahead of time, make sure the video and sound quality are good from the beginning to end.

## 8. Exhibits

- a. There may be times when you will be able to actually use what you are talking about as a visual aid – make sure that everyone can see it.
- b. This is best done with a small group.
- c. Ensure that all text, including text within graphics, is legible to those in the back of the room. Do not use fonts smaller than size 20.

## THE FINAL STEP

1. Practice, Practice, Practice!
2. The presentation should be well rehearsed, as papers should not be read, but rather a presentation prepared.
3. As you practice, be extra conscious of such things as elocution and time constraints.
4. If you have practiced your presentation and are comfortable with your material and visual aids, then you will be more relaxed and an effective speaker.

## ON THE DAY OF THE PRESENTATION

1. Consult the Final Program for the session time and location of your presentation.
2. Please arrive 15 minutes prior to the start of your session and make contact with the session moderator.
3. The moderator of your session will be in touch with you prior to the start of the conference. Please plan to meet with your moderator and check-in with them at the conference ahead of the session.
4. You have approximately 10-12 minutes maximum duration for your presentation, however, this is based upon the total number of presentations in your session. Please check with your moderator so that you know exactly how much time you will have for your presentation.
5. Laptop computers will be provided for each session and all presentations for that session will be pre-loaded onto that computer by the conference staff.

## IMPORTANT REMINDER

If you cannot appear for your presentation, you must contact the Conference Committee Convenor, Dr. Asok Adak at [convenor@asceic2020.org](mailto:convenor@asceic2020.org) as soon as possible so that a replacement speaker can be found.

## Poster Presentation Guidelines

### Poster Session Overview

Three poster sessions have been scheduled. You will be notified prior to the start of the conference of the time and session to present your poster. All posters should be mounted at least 30 minutes prior to the start of the session. You are welcome to get some refreshments, but we encourage you to spend time near your poster since most people will want to interact with you as they review your poster.

<b>Tuesday, March 03, 2020</b>	Poster Session I	11:30 a.m. – 01:00 p.m.
<b>Wednesday March 04, 2020</b>	Poster Session II	11:30 a.m. – 01:00 p.m.

### Exhibit Hall Layout and Materials

Each poster board will be 3 ft 11 inch wide and 7 ft 11 inch tall. You will have one side of the board and another presenter will use the other side. You may mount a single large-format poster, multiple smaller sheets or whatever arrangement best conveys your presentation and fits within the allotted poster board space. Many poster presenters allow some space for business cards, sign-up sheets, etc. to allow people to follow-up with you after the conference.

Please bring the following with you to the Poster Session:

- Poster
- Mounting material (push pins or thumb tacks)
- Hand-outs, illustrations, business cards, sign-up sheets, etc. (Optional)

There are **no duplication facilities** at the conference space. Also, space will not be available for computer-aided posters.

### Suggested Poster Layout

Each poster should have a heading in very large type, 84 pt or greater. Your name and affiliation should also be noted in large type, around 72 pt. Headings and subheadings should be at least 36 pt. You need not use all capitals for titles and headings, for this can sometimes make them difficult to read. Other lettering, including text and lettering on illustrations or charts, should be between 18 and 24 pt, and should have double or 1.5 spacing between lines. Use a simple font such as Times, Arial or Helvetica throughout your presentation. To make something stand out, use a larger font size, bold or underline.

You can also frame a section of text by putting a box around it. All material should be readable from a distance of three feet or more.

Remember that you can refer to your abstract paper for additional details. Do not post a normal sized copy of your abstract paper!