

Changes to the Student Design Competition

January 27, 2020

Presented by the WEF Students & Young Professionals Committee



Agenda

- Introduction to the WEF® Student Design Competition
 - SYPC and Subcommittee structure / leadership
 - Competition history and structure
- Changes for the 2020 Competition
 - Accommodating rapid growth
 - How these affect you
 - Important dates
- Staying connected
 - Benefits to students and your MA
 - How to start a team



SDC Overview





WEF® SYPC Leadership



Pono Hanson
SYPC Vice-Chair
Location: Washington, DC, USA
Chesapeake Water Environment Association
Email: PHanson@BrwnCald.com



Nashita Naureen
SYPC Vice-Chair
Location: Phoenix, Arizona, USA
Arizona Water Environment Association
Email: NaureenN@bv.com



Vanessa Borkowski
SYPC Chair
Location: Hartford, Connecticut, USA
New England
Water Environment Association
Email: Vanessa.Borkowski@stantec.com



Megan Livak
WEF SYPC Manager
Location: Alexandria, Virginia, USA
Email: MLivak@wef.org







WEF® SDC Leadership



Bernadette Drouhard
SDC Co-Chair
Location: Atlanta, Georgia, USA
Georgia Association of Water
Professionals
Email: DrouhardB@bv.com



E.J. Katsoulas
SDC Co-Chair
Location: Denver, CO, USA
Rocky Mountain
Water Environment Association
Email: EJ.Katsoulas@tetratech.com



Brad Lovett
WEF Manager, Assocation Engagement
Location: Alexandria, VA, USA

Email: BLovett@wef.org



Guy Yager
SDC Co-Vice Chair
Location: Walnut Creek, California, USA
California Water Environment
Association
Email: YagerG@bv.com



Stephanie Castro
SDC Co-Vice Chair
Location: White Plains, New York, USA
New York Water Environment
Association
Email: Stephanie.Castro@arcadis.com





WEF® SYPC Highlight



Ann Sager SDC Webinar Champion

Location: Fairfax, Virginia, USA

Virginia Water Environment Association

Email: asager@hazenandsawyer.com



History of the Competition

2009

1996

Florida WEA's 1st Student Design Competition SDC split into
Wastewater and
Water
Environment
competition
categories, 11
Teams participate

2019

Participation increases to **29** Teams!









2020

Requires changes to SDC structure and cap of **34** Teams

2002

Competition goes National at WEFTEC®, **4** Teams participate 2016

Participation increases to **15** Teams!



What are the goals of the WEF® SDC?

To promote "real world" design experience for students interested in pursuing an education and/or career in water/wastewater engineering and sciences.

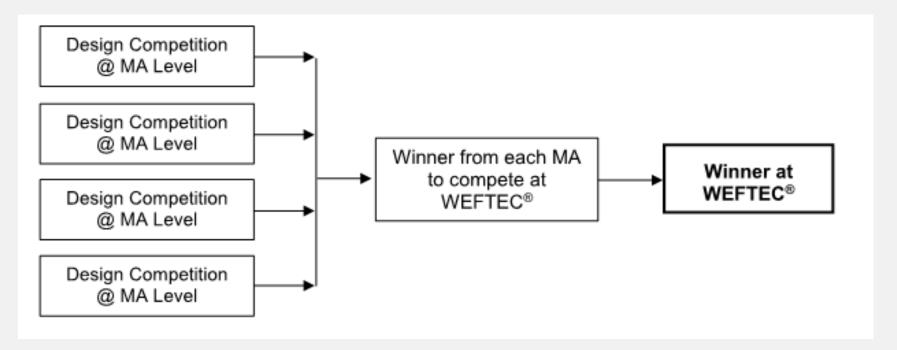
What is the WEF® SDC?

This competition tasks individuals or teams of student members to demonstrate the ability to evaluate alternatives, develop a comprehensive design, and present a solution that meets the requirements of a socially relevant problem statement.



Who competes?

 WEF® SDC brings together various member association-level competitions where the student groups, winners of their MA's competition, compete at WEFTEC®

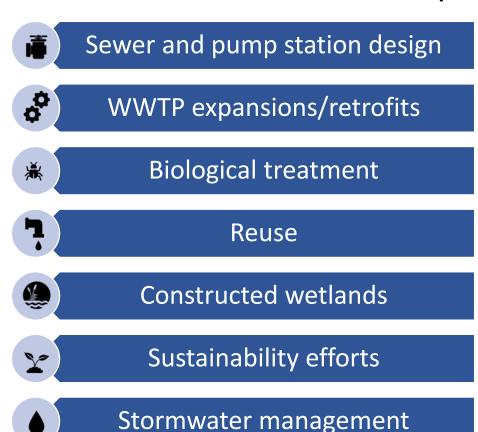




Intended Content of the Design Competition

Problems related to protection of water resources and public health





If you have a *question about the* suitability of your problem statement, please reach out to the Subcommittee! We are happy to review problem statements and provide recommendations for tailoring them to the national competition



Design Competition

Two competitions are held at WEFTEC ®:

Wastewater

Water Environment







Wastewater Competition

Intended to include traditional wastewater collection and treatment design projects



Hydraulic capacity design



Collection systems



Additions to existing WRRF processes



Biosolids handling



Biological nutrient removal



WRRF process optimization





Water Environment Competition

Intended to include contemporary engineering topics

















Competition Components

Oral Presentation

- 20-minute presentation
- 10-minute Q & A period

Written Report

- Preliminary Engineering Report
- 20-page limit

- Both subject to questioning during the Q&A period
- Questioning is limited to the judging panel only



Student Team Requirement

Selected by their
Member Association
to participate

WEF® student member in good standing







Student Webinar

Occurs in the summer preceding the WEFTEC® competition

Provides an overview of what to expect at the SDC and WEFTEC®

- Only one student from each team is required to attend
- Highly recommend that all students attend
- Duration of the webinar is about 1 hour





Changes to the SDC in 2020



Abstract Review and New Entry Materials

Abstracts are still required for publishing of the booklet

New requirements for one of two deliverables from teams:

• In-progress Report

OR

• Executive Summary

Purpose is to allow for better grouping of competing teams

Materials will be reviewed more intensively, in a similar fashion to technical abstracts submitted for WEFTEC®



Limited Number of Participating Teams

Competition will be altered in order to allow the maximum number of teams to attend

- Morning & Afternoon competition blocks
- Teams only required to attend their competition block

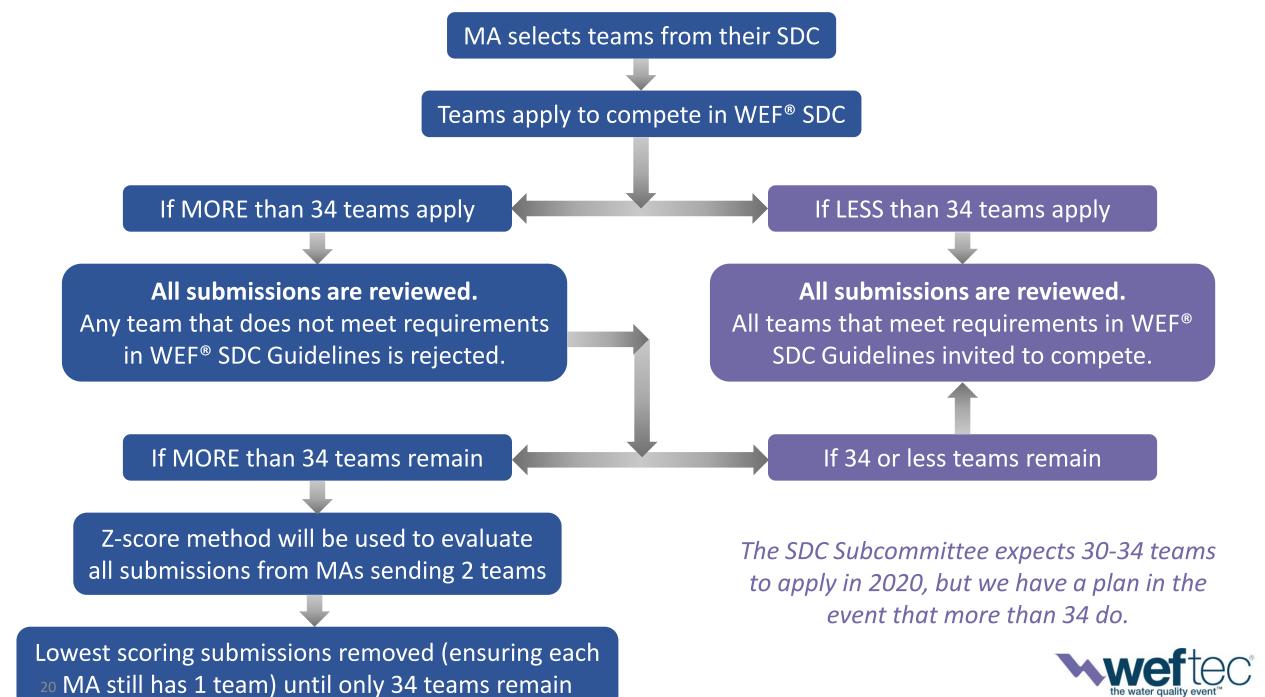
Presentation and Q&A timing will not change

Maximum number of teams is 34—17 per competition without reducing teams timing

Competing MA's will have at least 1 team at WEFTEC®, provided they meet requirements

 Second teams from the same MA will be confirmed once all competition entrants are evaluated





How these changes affect you

MA's who have traditionally sent a *single* team to WEFTEC®:

- No change.
- Triple check their submission complies with the updated WEF® SDC Guidelines
- Inform your team of additional application requirements that are new in 2020

MA's who have traditionally sent *multiple* teams to WEFTEC®:

- If more than 34 teams apply, you will hear from the SDC Subcommittee regarding the status of their applications
- If your second team is not invited to compete, they are still welcome to participate in other SYP events at WEFTEC®!

MA's who have *not* sent a team to WEFTEC® before:

- Welcome!
- Pay careful attention to all requirements in the updated WEF® SDC Guidelines
- Contact the SDC
 Subcommittee with any questions



Important Dates

May 1 – MA's to notify the SDC Subcommittee Chairs of intent to participate in the WEFTEC® SDC

May 29 – Application materials due (including the online entry form, abstract, and executive summary OR in-progress report)

End of June – Student webinar

August 21 – Electronic and hard copies of design report due

September 25 – Electronic copy of the powerpoint presentation due

October 4 – Competition at WEFTEC® in New Orleans



The 2020 SDC Guidelines are now LIVE!

- The updated WEF Student Design Competition Guidelines have been uploaded to the SDC website:
 - https://www.wef.org/membership/students-and-youngprofessionals2/student-design/
- A concise summary of the differences between 2019 and 2020 competitions will be posted later this week



Staying Connected (and what's in it for you!)



SDC Benefits for Member Associations



Great forum to showcase the talent of the next wave of water professionals coming out of your region



Opportunity to present innovative projects that are being conducted in your region



Excellent medium for forging relationships between a YP committee and student chapters within an MA



Bragging rights!







SDC Benefits for Students



Real world design experience with a professional mentor



Opportunity to demonstrate and improve technical presentation and writing skills prior to employment



Networking with top industry professionals, young professionals, and peers



WEF and MA Involvement/ Participation



Attend WEFTEC®!







SDC Subcommittee Outreach Efforts

- Regional liaisons
 - You will be provided with contact information for an SDC pointperson in your region.
 - Feel free to reach out to that person throughout the year with any questions about the WEF SDC.
 - Important deadlines
 - Specific questions not explicitly addressed in the guidelines
 - Help with submitting any documentation



SDC Subcommittee Outreach Efforts

- Phone survey
 - Regional liaison will be reaching out to you for an optional survey
 - 15-20 minute phone call
 - Goal #1: Opportunity for members of the WEF SDC Subcommittee to get to know champions of the MA SDCs
 - Goal #2: Compile a comprehensive database of how regional student design competitions are conducted
 - The SDC Subcommittee will then disseminate a guidebook based on this information for running a successful competition at the MA level, in order to aid regional student design competitions around the globe.



Starting Up a Student Design Competition

- Oftentimes the most difficult part of running a SDC is getting it off the ground
- Use the WEF SDC Subcommittee as a resource!
 - We will ensure that there is a point person to answer questions and provide guidance during start-up
 - Resources required to run a competition
 - How to organize an SDC Committee in your MA
 - How to garner interest in your competition (and ultimately, participation!)
- Neighboring MAs are often a great resource, and can potentially host teams from your MA if you cannot hold a competition
 - "Multi-regional" competitions are becoming more popular



Survey

Who is the primary contact for the SDC within your MA? Do you have a local MA SDC? If yes, what month does it occur in? If you do not have a local competition, are you interested in starting one? Do you typically send more than one school to the WEFTEC® SDC?











CONTACT INFORMATION FOR WEF® STUDENT DESIGN COMPETITION:

Bernadette Drouhard SDC Co-Chair

Location: Atlanta, Georgia, USA Georgia Association of Water

Professionals

Email: DrouhardB@bv.com

E.J. Katsoulas SDC Co-Chair

Location: Denver, CO, USA Rocky Mountain Water Environment Association

Email: EJ.Katsoulas@tetratech.com

Guy Yager SDC Co-Vice Chair

Location: Walnut Creek, California, USA California Water Environment

Association

Email: YagerG@bv.com

Stephanie Castro SDC Co-Vice Chair

Location: White Plains, New York, USA New York Water Environment Association

Email: Stephanie.Castro@arcadis.com

Brad Lovett
WEF Manager, Assocation Engagement

Location: Alexandria, VA WFF

Email: BLovett@wef.org

Questions?



