



SOCIETY AWARD NOMINATIONS

A Guide: How to Create a Nomination Package

January 30, 2024

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WELCOME

Thank you for your interest in ensuring the American Society of Civil Engineers recognizes outstanding engineers for their contributions to the profession through the Honors and Awards Program.

The Society boasts an inventory of 94 Society Awards, apart from those presented by institutes, divisions, and others. Society Awards are considered more prestigious than any other awards. Past winners often cite Society Awards for advancing their careers. It is only through the efforts of nominators who formally present their candidates for consideration that ASCE can continue these important recognitions.

Who can nominate? Self-nominations are strongly discouraged, and many Society Award rules forbid it. Nominators are not required to be ASCE members, but those who nominate are generally Society members.

If you are interested in nominating for Distinguished Membership, please understand the requirements are unique to that program. Please refer to information and to download forms on the web at <https://www.asce.org/career-growth/awards-and-honors/distinguished-members>.

This guide will assist those interested in nominating a paper, person, project, or program for an ASCE Society Award. The process outlined in the following pages is for Society Awards only and is meant to guide the nominator in creating a complete nomination package tailored to a specific Society Award. A complete list of Society Awards begins on page 3.

If you are unclear about which award fits your candidate, we invite you to review the inventory by area on page 7.

You will find information specific to each Society Award at <https://www.asce.org/career-growth/awards-and-honors>.

Each section in this guide explains the documents required to present a complete package. You will also find an example for reference.

If you have questions not answered in this guide, we invite you to contact awards@asce.org.

Jane Moran Alspach, Aff.M.ASCE
Director, Honors and Awards

INVENTORY OF SOCIETY AWARDS – PRESENTED ALPHABETICALLY

For further information, visit awards@asce.org

Highlighted Society Awards recognize outstanding published papers.

SOCIETY AWARD	ENGINEERING DISCIPLINE
Ang Award on Risk Analysis & Management of Civil Infrastructures, Alfredo	Civil Infrastructure
Arid Lands Hydraulic Engineering Award	Environmental Engineering
Bartholomew Award, Harland	Transportation Engineering
Bazant Medal for Failure & Damage Prevention, Zdenek P.	Civil Infrastructure
Bechtel Pipeline Engineering Award, Stephen D.	Pipeline Engineering
Bechtel, Jr Energy Award, Stephen D.	Energy Engineering
Bickel Award, John O.	Construction Engineering
Biot Medal, Maurice A.	Engineering Mechanics
Can-Am Civil Engineering Amity Award	Professional Development & Civil Achievement
Casagrande Professional Development Award, Arthur	Geotechnical Engineering
Cermak Medal, Jack E.	Engineering Mechanics/Structural Engineering
Ven Te Chow Award	Environmental Engineering
Civil Engineering History & Heritage Award	Civil Engineering History
Collingwood Prize	Younger Members
Columbia Medal	Aerospace Engineering
Computing In Civil Engineering Award	Computer Practices
Construction Management Award	Construction Engineering
Croes Medal, J. James R.	Engineering Science
Duke Lifeline Earthquake Engineering Award, Charles Martin	Lifeline Engineering
Einstein Award, Hans Albert	Environmental/Coastal Engineering
Frangopol Award for Life-Cycle Civil Engineering of Civil Structures, Dan M.	Structural Engineering
Freese Environmental Engineering Award & Lecture, Simon W.	Environmental Engineering
Freudenthal Medal, Alfred M.	Engineering Mechanics
Friedman Professional Recognition Award, Edmund	Professional Development & Civil Achievement
Friedman Young Engineer Award for Professional Achievement, Edmund	Younger Members
Greeley Award, Samuel Arnold	Environmental Engineering

SOCIETY AWARD	ENGINEERING DISCIPLINE
Halpin Award for Scholarship in Construction, Daniel W.	Construction Engineering
Hardesty Award, Shortridge	Structural Engineering
Hering Medal, Rudolph	Environmental Engineering
Hilgard Hydraulic Prize, Karl Emil	Environmental Engineering
Hinds Award, Julian	Environmental Engineering
Hoffman Award, Phillip R.	Energy Engineering
Horner Award, Wesley W.	Environmental Engineering
Housner Structural Control and Monitoring Award, George W.	Engineering Mechanics
Howard Award, Ernest E.	Construction/Structural Engineering
Huber Civil Engineering Research Prizes, Walter L.	Research and Innovation
Hydraulic Structures Medal	Environmental Engineering
Innovation in Civil Engineering Award	Sustainability
International Coastal Engineering Award	Coastal Engineering
Iwan Award for Mentors in Mechanics Research, Wilfred D.	Engineering Mechanics
Journalism Award, ASCE Excellence in	Journalism
Kapp Foundation Engineering Award, Martin S.	Geotechnical Engineering
Laurie Prize, James	Transportation Engineering
LeFevre Award, Walter	Ethics
Lin Award, T. Y.	Structural Engineering
Lund Award, Le Val	Civil Infrastructure
Magoon Sustainable Coasts Award, Orville T.	Coastal Engineering
Masters Transportation Engineering Award, Frank M.	Transportation Engineering
Mead Prize for Younger Members, Daniel W.	Younger Members
Mead Prize for Students, Daniel W.	Student Members
Michel Award for Industry Advancement of Research, Henry L.	Research and Innovation
Middlebrooks Award, Thomas A.	Geotechnical Engineering
Mindlin Medal, Raymond D.	Engineering Mechanics
Moffatt- Frank E. Nichol Harbor and Coastal Engineering Award, John G.	Coastal Engineering
Moisseiff Award	Structural Engineering
Mujumdar Resilience Award, Vilas	Structural Engineering
Newmark Medal, Nathan M.	Engineering Mechanics

SOCIETY AWARD	ENGINEERING DISCIPLINE
Noble Prize, Alfred	Engineering Science
Norman Medal	Engineering Science
Outstanding Public Official Award	Professional Development & Civil Achievement
Pankow Award for Innovation, ASCE Charles	Research and Innovation
Parcel-Leif J. Sverdrup Civil Engineering Management Award, John I.	Professional Development & Civil Achievement
Peck Award, Ralph B.	Geotechnical Engineering
Petersen Award, Margaret S.	Environmental Engineering
Peurifoy Construction Research Award	Construction Engineering
Peyton Award for Cold Regions Engineering, Harold R.	Cold Regions Engineering
Prakash Award and Lecture, Shamsheer	Geotechnical Engineering
Presidents-Emeriti Council Award, ASCE	Professional Development & Civil Achievement
President's Medal, ASCE	Professional Development & Civil Achievement
Professional Practice Ethics and Leadership Award, The	Ethics
Reese Research Prize, Raymond C.	Structural Engineering
Rickey Medal	Energy Engineering
Ridgway Student Chapter Award, Robert	Student Members
Roberts Global Sustainability Award, Donald V.	Sustainability
Roebing Award	Construction Engineering
Rouse Hydraulic Engineering Lecture, Hunter	Environmental Engineering
Rowland Prize, Thomas Fitch	Construction Engineering
Scanlan Medal, Robert H.	Engineering Mechanics
Seed Medal, H. Bolton	Geotechnical Engineering
Shinozuka Medal, Masanobu	Engineering Mechanics
Wilbur S. Smith Award	Transportation Engineering
Smith Hydraulic Fellowship, J. Waldo	Environmental Engineering
State of the Art of Civil Engineering Award, ASCE	Engineering Science
Stevens Award, J. C.	Environmental Engineering
Surveying And Mapping Award	Geomatics Engineering
Terzaghi Award, Karl	Geotechnical Engineering
Terzaghi Lecture, Karl	Geotechnical Engineering
Tipton Award, Royce J.	Environmental Engineering
Turner Lecture, Francis C.	Transportation Engineering

SOCIETY AWARD	ENGINEERING DISCIPLINE
Von Karman Medal, Theodore	Engineering Mechanics
Wellington Prize, Arthur M.	Transportation Engineering
Winter Award, George	Structural Engineering
Wisely American Civil Engineer Award, William H.	Professional Development & Civil Achievement
Younger Member Group Award	Younger Members

INVENTORY OF SOCIETY AWARDS – PRESENTED BY AREA

For further information, visit awards@asce.org

Highlighted Society Awards recognize outstanding published papers.

Aerospace Engineering	
Columbia Medal	
Civil Engineering History	
Civil Engineering History & Heritage Award	
Civil Infrastructure	
Ang Award on Risk Analysis & Management of Civil Infrastructures, Alfredo	Bazant Medal for Failure & Damage Prevention, Zdenek P.
Lund Award, Le Val	
Coastal Engineering	
International Coastal Engineering Award	Moffatt- Frank E. Nichol Harbor and Coastal Engineering Award, John G.
Magoon Sustainable Coasts Award, Orville T.	
Cold Regions Engineering	
Peyton Award for Cold Regions Engineering, Harold R.	
Computer Practices	
Computing In Civil Engineering Award	
Construction Engineering	
Bickel Award, John O.	Roebing Award
Construction Management Award	Peurifoy Construction Research Award
Halpin Award for Scholarship in Construction, Daniel W.	Rowland Prize, Thomas Fitch
Construction/Structural Engineering	
Howard Award, Ernest E.	
Energy Engineering	
Bechtel, Jr Energy Award, Stephen D.	Rickey Medal
Hoffman Award, Phillip R.	

Engineering Mechanics	
Biot Medal, Maurice A.	Newmark Medal, Nathan M.
Freudenthal Medal, Alfred M.	Scanlan Medal, Robert H.
Housner Structural Control and Monitoring Award, George W.	Shinozuka Medal, Masanobu
Iwan Award for Mentors in Mechanics Research, Wilfred D.	Von Karman Medal, Theodore
Mindlin Medal, Raymond D.	
Engineering Mechanics/Structural Engineering	
Cermak Medal, Jack E.	
Engineering Science	
Croes Medal, J. James R.	Norman Medal
Noble Prize, Alfred	State of the Art of Civil Engineering Award, ASCE
Environmental/Coastal Engineering	
Einstein Award, Hans Albert	
Environmental Engineering	
Arid Lands Hydraulic Engineering Award	Horner Award, Wesley W.
Ven Te Chow Award	Hydraulic Structures Medal
Freese Environmental Engineering Award & Lecture, Simon W.	Petersen Award, Margaret S.
Greeley Award, Samuel Arnold	Rouse Hydraulic Engineering Lecture, Hunter
Hering Medal, Rudolph	Smith Hydraulic Fellowship, J. Waldo
Hilgard Hydraulic Prize, Karl Emil	Stevens Award, J. C.
Hinds Award, Julian	Tipton Award, Royce J.
Ethics	
LeFevre Award, Walter	
Geomatics Engineering	
Surveying And Mapping Award	

Geotechnical Engineering	
Casagrande Professional Development Award, Arthur	Prakash Award and Lecture, Shamsher
Kapp Foundation Engineering Award, Martin S.	Seed Medal, H. Bolton
Middlebrooks Award, Thomas A.	Terzaghi Award, Karl
Peck Award, Ralph B.	Terzaghi Lecture, Karl
Journalism	
Journalism Award, ASCE Excellence in	
Lifeline Engineering	
Duke Lifeline Earthquake Engineering Award, Charles Martin	
Pipeline Engineering	
Bechtel Pipeline Engineering Award, Stephen D.	
Professional Development & Civil Achievement	
Can-Am Civil Engineering Amity Award	Parcel-Leif J. Sverdrup Civil Engineering Management Award, John I.
Friedman Professional Recognition Award, Edmund	Wisely American Civil Engineer Award, William H.
Outstanding Public Official Award	
Research and Innovation	
Huber Civil Engineering Research Prizes, Walter L.	Pankow Award for Innovation, ASCE Charles
Michel Award for Industry Advancement of Research, Henry L.	
Structural Engineering	
Frangopol Award for Life-Cycle Civil Engineering of Civil Structures, Dan M.	Mujumdar Resilience Award, Vilas
Hardesty Award, Shortridge	Reese Research Prize, Raymond C.
Lin Award, T. Y.	Winter Award, George
Moisseiff Award	
Student Members	
Mead Prize for Students, Daniel W.	Ridgway Student Chapter Award, Robert

Sustainability	
Innovation in Civil Engineering Award	Roberts Global Sustainability Award, Donald V.
Transportation Engineering	
Bartholomew Award, Harland	Wilbur S. Smith Award
Laurie Prize, James	Turner Lecture, Francis C.
Masters Transportation Engineering Award, Frank M.	Wellington Prize, Arthur M.
Younger Members	
Collingwood Prize	Mead Prize for Younger Members, Daniel W.
Friedman Young Engineer Award for Professional Achievement, Edmund	Younger Member Group Award

ASCE RECOGNITIONS

The Society's recognitions fall into the following categories:

Awards for Papers -

Examples: J. James R. Croes Medal, Norman Medal, Thomas Fitch Rowland Prize

Awards for Individuals -

Examples: Arid Lands Hydraulic Engineering Award, Shortridge Hardesty Award

Awards for Projects -

Examples: Innovation in Sustainable Engineering Award, Outstanding Civil Engineering Achievement Award

Award for Educational Programs -

Example: Walter LeFevre Award

Step 1 – Review the inventory of Society Awards on pages 3-10. Identify the Society Award that best meets your candidate's attributes.

I am interested in nominating: _____

She/he is active in this Civil Engineering discipline: _____

I have identified the following Society Award as a match with my candidate: _____

I understand the entry deadline is: _____

_____ I have reviewed the award rules (<https://www.asce.org/career-growth/awards-and-honors>) and verify my candidate meets the award's criteria.

If you are nominating a paper, continue to page 12.

If you are nominating an individual, continue to page 17.

If you are nominating a project, continue to page 24.

If you are nominating an educational program, continue to page 31.

HOW TO NOMINATE A PAPER

The following instructions are valid for nominating a published paper. Please note: if you wish to nominate for the ASCE Excellence in Journalism Award, you will use a unique form, available at <https://www.asce.org/career-growth/awards-and-honors/asce-excellence-in-journalism-award/nomination-form>.

Step 1 – Completed on page 11.

Step 2 – Your complete nomination package must include:

- a) Your cover letter describing how the paper meets or exceeds the award's criteria.
- b) A completed Official Nomination Form (available at <https://www.asce.org/-/media/asce-images-and-files/career-and-growth/awards--and-honors/documents/asce-official-award-nomination-form.pdf>) *for each author*. Include a suitable citation that follows this format:
"For the paper, (insert paper's title) by (insert each author's full name with credentials and ASCE member grade if known), (insert name of Journal), insert the month and year of publication). *Repeat this citation on each author's nomination form.*
- c) A copy of the published paper as it appeared in the journal.
- d) As the nominator, provide your contact information and sign each form.

Step 3 - Submit your complete package (single PDF preferred) to awards@asce.org.

Step 4 - Once submitted, you will receive acknowledgement generally within 24 hours. If you have not received notification, please follow up.

Questions? Contact awards@asce.org.

EXAMPLE – NOMINATION FOR A PAPER

Pages 14 to 16 are provided as reference.

Example - Nominator's cover letter

On your letterhead, if available for this purpose.

INSERT DATE HERE

Honors and Awards Program
ASCE
1801 Alexander Bell Drive
Reston, VA 20191-4400

Dear Selection Committee:

INSERT INTRODUCTORY PARAGRAPH HERE (e.g.: I am pleased to nominate **INSERT TITLE OF PAPER HERE** by **INSERT AUTHORS HERE** for the **INSERT NAME OF AWARD HERE**.)

TWO - FOUR PARAGRAPHS HERE THAT JUSTIFY HOW THE PAPER MEETS THE AWARD'S CRITERIA. AS THE AWARD IS FOR A PAPER, IT IS NOT NECESSARY TO PROVIDE THE AUTHORS' CV INFORMATION. YOU MAY WANT TO INCLUDE THE IMPACT THE AUTHOR'S RESEARCH HAS HAD ON CIVIL ENGINEERING.

INSERT CLOSING PARAGRAPH HERE (e.g. I recommend without qualification the paper by Roberta Necessary, Alberta Clipper, and George Great for the Samuel Arnold Greeley Award.)

Sincerely,

your signature

TYPE YOUR NAME AND CREDENTIALS HERE (e.g. Thelma Joyful, P.E., F.ASCE)

Example – Author’s nomination form. *Separate form required for each author.*



OFFICIAL AWARD NOMINATION FORM

Please complete this form for each person being nominated.

Samuel Arnold Greeley Award

Award Name

Name: Roberta Necessary, Ph.D., P.E., F.ASCE

Nominee’s Full Name (add credentials, including ASCE membership grade. Example: Ph.D., P.E., M.ASCE)

Home Address: 842 High Point Creek Road, Westleigh, HI 43222

Email: RobertaNecessary@gmail.com

Birth date – *if an award requirement:* _____

Provide Information About Professional Licensure (P.E. - Primary):

License State: _____ License #: _____ Year _____

Provide ASCE Membership Grade:

Dist.M.ASCE (Distinguished Member)

A.M.ASCE (Associate Member)

F.ASCE (Fellow)

Aff.M.ASCE (Affiliate Member)

M.ASCE (Member)

S.M.ASCE (Student Member)

Not Society Member

Suggested Citation (*not to exceed 40 words*):

“For the paper, “Control Strategies for the Mitigation and Removal of Attached Manganese Biofilms,” by Roberta Necessary, Ph.D., P.E., F.ASCE and Charles Happy, P.E., M.ASCE, Journal of Environmental Engineering, April 2019.”

Nominated by: Thelma Joyful, P.E., F.ASCE

Name

Signature

Phone: 844-123-9865 Email: _tj@gmail.com_ Date: 10/20/2023

Your nomination package requires a full copy of the paper as published in an ASCE Journal. The following image is for description purposes only.

Control Strategies for the Mitigation and Removal of Attached Manganese Biofilms

Abstract: Biofilm formation and manganese oxidizing bacteria (MOBs) in water transmission and distribution systems can lead to a wide array of water quality issues, operational problems, and negative hydraulic impacts. To investigate possible methods to control biofilm formation, a study using chlorine dioxide (ClO_2) and sodium hypochlorite (NaOCl) was performed with rotating annular reactors (ARs). Results showed that low (0.5 mg/L as ClO_2) and high (1.0 mg/L as ClO_2) doses of ClO_2 , and 2.0 mg/L as Cl_2 of NaOCl , were effective at mitigating biofilm to different extents by oxidizing readily available dissolved manganese (Mn) and iron (Fe) and/or inactivating biofilm populations. The most effective biofilm control strategy tested was a 2.0 mg/L dose of NaOCl , which provided significant reductions of suspended bacteria (2.1 log reduction), established biofilm (2.5 log reduction), and new biofilm growth (3.2 log reduction). Results from this study suggest that the implementation of treatment strategies for the control of existing and future biofilms should consider both (1) the removal of readily available metals by oxidation, and (2) the direct inactivation of attached bacteria. DOI: 10.1061/(ASCE)EE-1943-7870.0001288. © 2017 American Society of Civil Engineers.

Introduction

Biofilm formation in water transmission and distribution systems is ubiquitous, and has been a concern for water utilities worldwide (Piccologlou et al. 1980). Historically, these biofilms have been responsible for water quality and operational problems, which include loss of disinfectant residuals, increased bacterial levels, reduction of dissolved oxygen, taste and odor changes, red or black water problems, microbial-influenced corrosion, and reduced materials' life (LeChevallier 1999). In addition, biofilms formed on the inside surface of pipelines have been found to increase hydraulic roughness, thereby lowering conduit capacity. Though biofilms are often very thin compared with the diameter of the conduit, the filamentous nature of the deposits has been found to reduce design flow capacity as much as 55% in some systems (Piccologlou et al. 1980).

Manganese (Mn) and iron (Fe) deposition in biofilms is attributed to filamentous sheathed bacteria, such as *Leptothrix discophora*, which are capable of biological oxidation of Mn(II) to hydrous Mn(IV) oxides (Ghiorese 1984; Hope and Bott 2004). Such bacteria, referred to as manganese oxidizing bacteria (MOBs), are of particular concern because they have been recognized as a predominant species found in biofilms responsible for clogging and detrimental frictional effects in water system pipelines (Minkus 1954; Tyler and Marshall 1967). Manganese (II) has been found

to oxidize and deposit on many materials in water distribution systems, including concrete (Hale 1930), steel (Kielemees et al. 2002), cast iron (Cerrato et al. 2006; Zacheus et al. 2001), and PVC pipes (Cerrato et al. 2006; Murdoch and Smith 1999).

Oxidation of Mn is a biocatalytic process that occurs by various means, including: (1) primary intracellular oxidation by enzymatic action; (2) adsorption of dissolved Mn at the surface of the cell membrane (a bond forming between Mn^{2+} and the negatively charged extracellular polymers), followed by oxidation by enzymatic action; and (3) simple catalysis in the vicinity of the cell, under the influence of the biopolymers secreted by the bacteria (Mouchet 1992). Manganese oxidation by MOBs typically is much more rapid than abiotic oxidation by dissolved molecular oxygen (Ehrlich 1996). For example, Mn(II) oxidation rates have been shown to increase by four orders of magnitude in oxygen-rich water in the presence of MOBs at pH of 7.8 (Hastings and Emerson 1986).

Traditionally, drinking water biofilms were controlled chemically with sodium hypochlorite (NaOCl). However, concerns regarding disinfection byproduct (DBP) formation, including trihalomethanes (THMs) and haloacetic acids (HAAs), led to the investigation of alternative treatments. Several studies investigated monochloramine (NH_2Cl) as an alternative to chlorine for biofilm treatment because of the lower DBP formation potential and residual stability (LeChevallier et al. 1990; Chandry and Angles 2001; Ollon et al. 2003; Camper et al. 2003; Gagnon et al. 2004; Dykstra et al. 2007). These studies provided varying results regarding the ability of chloramines to penetrate and control the growth and accumulation of biofilms.

Chlorine dioxide (ClO_2) also has been used as an alternative chemical treatment for biofilm control because it produces fewer THMs and HAAs than chlorine, and has shown to be a more effective disinfectant under certain conditions (Hoffman et al. 1999). Chlorine dioxide treatment in drinking water, however, can result in the production of other DBPs, such as chlorite (ClO_2^-) and chlorate (ClO_3^-). Specifically, ClO_2^- must remain below the Environmental Protection Agency (EPA) maximum contaminant level (MCL) of 1.0 mg/L (USEPA 1999). The conversion of dissolved ClO_2 to ClO_2^- and ClO_3^- can differ by water source, but typically has been found between 30 and 70% of the ClO_2 added (Gordon 2001;

¹Senior Principal Engineer, Hazen and Sawyer, 500 N. Shoreline Blvd., Suite 1102, Corpus Christi, TX 78412 (corresponding author). ORCID: <https://orcid.org/0000-0003-2937-3225>. E-mail: mstanton@hazenandhwyer.com

²Senior Environmental Engineer, Match Associates, LLC, 360 Darlington Ave., Ramsey, NJ 07446. E-mail: rcarbonaro@matchassociates.com

³Professor and Donald J. O'Connor Endowed Faculty Fellow, Dept. of Civil and Environmental Engineering, Manhattan College, 4512 Manhattan College Pkwy., Riverdale, NY 10471. E-mail: robert.sharp@manhattan.edu

Note. This manuscript was submitted on December 11, 2016; approved on June 12, 2017; published online on November 11, 2017. Discussion period open until April 11, 2018; separate discussions must be submitted for individual papers. This paper is part of the *Journal of Environmental Engineering*, © ASCE, ISSN 0733-9372.

HOW TO NOMINATE AN INDIVIDUAL

The following instructions are for those nominating a person for an award.

Step 1 – Completed on page 11.

Step 2 - Before proceeding further answer these questions:

(a) Does the award you have identified require ASCE membership? If so, does your candidate meet this requirement?

_____YES _____NO

(b) Does the award have an age requirement? If so, does your candidate meet this requirement?

_____YES _____NO

Step 3 – Your complete nomination package must include:

- a) Your cover letter describing how your candidate meets or exceeds the award's criteria. Because your package will include the candidate's bio or CV, do not repeat their background.
- b) A completed Official Nomination Form (available at <https://www.asce.org/-/media/asce-images-and-files/career-and-growth/awards--and-honors/documents/asce-official-award-nomination-form.pdf>). *See next page for information about citations.*
- c) Two-three reference letters, in which recommenders offer how the candidate meets the award criteria.
- d) The candidate's bio or CV. Please limit it to no more than 25 pages.
- e) As the nominator, provide your contact information and signature to the Official Nomination Form.

Step 4 - Submit your complete package (single PDF preferred) to awards@asce.org.

Step 5 - Once submitted, you will receive acknowledgement, generally within 24 hours. If you have not received notification, please follow up.

Questions? Contact awards@asce.org.

The Importance of Citations

In the case of nominations for individuals, citations play an important role.

- *The citation is used as a rationale for why the candidate is being recommended as a winner.*
- *The citation is used in ASCE publicity about the winner.*
- *The citation appears on the winner's certificate if the award provides for one.*

The citation is no more than 40 words in length and always begins with "For" as shown in the following examples:

"For her technical accomplishments, leadership, and commitment to mentoring women pursuing engineering careers which concur with the ideals the award's namesake championed throughout her life."

"For technical contributions of national and international significance in risk analysis, risk management and lifecycle economics of civil infrastructure, including resilience and sustainability in a changing climate."

"For his exceptional wide-ranging research on arid lands hydrology and hydraulics, including analyzing the vulnerability of the U.S. water supply system to climate change, and observationally demonstrating the complementary relationship of evapotranspiration, and for his outstanding teaching and mentoring."

"For fundamental contributions to advancing the science on the fate and transport of polyfluoroalkyl substances (PFAS) and other emerging contaminants in aquatic and terrestrial systems that leads to guidelines and models for subsurface remediation."

"For seminal work on theoretical and computational methods related to wave propagation and inverse scattering problems, with applications to the imagining of biological and engineered systems."

EXAMPLE – NOMINATION FOR AN INDIVIDUAL

Pages 20 to 23 are provided as reference.

Template – Nominator’s cover letter

On your letterhead, if available for this purpose.

INSERT DATE HERE

Honors and Awards Program
ASCE
1801 Alexander Bell Drive
Reston, VA 20191-4400

Dear Selection Committee:

INSERT INTRODUCTORY PARAGRAPH HERE (e.g.: I am pleased to nominate **INSERT CANDIDATE’S NAME** for the **INSERT NAME OF AWARD HERE**.)

TWO - FOUR PARAGRAPHS HERE THAT JUSTIFY HOW YOUR CANDIDATE MEETS THE AWARD’S CRITERIA. AS YOUR PACKAGE WILL INCLUDE THE CANDIDATE’S CV, THERE IS NO NEED TO REPEAT IT HERE. INSTEAD, WE SUGGEST DISCRIBING THE IMPACT THEY HAVE HAD ON THEIR ENGINEERING DISCIPLINE, THEIR IMPORTANT RESEARCH OR ACCOMPLISHMENTS, ETC.

INSERT CLOSING PARAGRAPH HERE (e.g.: I recommend without qualification the paper Roberta Necessary for the Stephen D. Bechtel Pipeline Engineering Award.)

Sincerely,

your signature

TYPE YOUR NAME AND CREDENTIALS HERE (e.g. Thelma Joyful, P.E., F.ASCE)

Example – Author’s nomination form



OFFICIAL AWARD NOMINATION FORM

Please complete this form for each person being nominated.

Stephen D. Bechtel Pipeline Engineering Award

Award Name

Name: _ George T. Great, P.E., M.ASCE

Nominee’s Full Name (add credentials, including ASCE membership grade. Example: Ph.D., P.E., M.ASCE)

Home Address: 9142 West Park Drive, Ashburgh, NM 92843

Email: george.great@gmail.com

Birth date – if an award requirement: _____

Provide Information About Professional Licensure (P.E. - Primary):

License State: _____ License #: _____ Year _____

Provide ASCE Membership Grade:

___ Dist.M.ASCE (Distinguished Member)

___ A.M.ASCE (Associate Member)

___ F.ASCE (Fellow)

___ Aff.M.ASCE (Affiliate Member)

X ___ M.ASCE (Member)

___ S.M.ASCE (Student Member)

___ Not Society Member

Suggested Citation (not to exceed 40 words):

“For his many contributions in the field of pipe material engineering, research and evaluation, pipeline engineering and construction and for his work on national committees and organizations.”

Nominated by: Thelma Joyful, P.E., F.ASCE

Name

Signature

Phone: 844-123-9865 Email: _tj@gmail.com_ Date: 10/20/2023

Example – Reference letter. You will need 2-3 letters. Authors should be those who can speak with authority about the qualifications of the candidate. Letters should be original and should not duplicate one another. Reference letters must be collected by the nominator and included in the final package.

On your letterhead, if available for this purpose.

INSERT DATE HERE

Honors and Awards Program
ASCE
1801 Alexander Bell Drive
Reston, VA 20191-4400

Dear Selection Committee:

INSERT INTRODUCTORY PARAGRAPH HERE (e.g.: I am pleased to recommend
INSERT CANDIDATE'S NAME for the INSERT AWARD NAME.)

TWO - FOUR PARAGRAPHS HERE THAT JUSTIFY HOW YOUR CANDIDATE MEETS THE AWARD'S CRITERIA. AS THE FINAL NOMINATION PACKAGE WILL INCLUDE THE CANDIDATE'S CV, THERE IS NO NEED TO REPEAT IT HERE. INSTEAD, WE SUGGEST DESCRIBING THE IMPACT THEY HAVE HAD ON THEIR ENGINEERING DISCIPLINE, THEIR IMPORTANT RESEARCH OR ACCOMPLISHMENTS, ETC.

INSERT CLOSING PARAGRAPH HERE (e.g.: I recommend without qualification George
Great for the Stephen D. Bechtel Pipeline Engineering Award.)

Sincerely,

your signature

TYPE YOUR NAME AND CREDENTIALS HERE (e.g. Thelma Joyful, P.E., F.ASCE

The final document in this submission is the candidate's CV/bio

Please limit it to no more than 25 pages.

HOW TO NOMINATE A PROJECT

ASCE has two Society Awards for projects. They are Innovation in Sustainable Engineering Award and Outstanding Civil Engineering Achievement Award.

The Official Nomination form is not used for this entry.

For the Innovation in Sustainable Engineering Award, use the form available at <https://www.asce.org/-/media/asce-images-and-files/career-and-growth/awards--and-honors/documents/innovation-in-sustainable-engineering-award-nomination-form.pdf>

For the Outstanding Civil Engineering Achievement Award, use the form available at <https://www.asce.org/-/media/asce-images-and-files/career-and-growth/awards--and-honors/documents/ocea-award-nomination-form.pdf>

The following example applies to the Innovation in Sustainable Engineering Award, but also applies to the Outstanding Civil Engineering Achievement Award.

Step 1 – Completed on page 11.

Step 2 – Your complete nomination package must include:

- a) Your cover letter as described in the entry form.
- b) A completed entry form.
- c) Photos as described in the entry form.

Step 3 - Submit your complete package (single PDF preferred) to awards@asce.org.

Step 4 - Once submitted, you will receive acknowledgement, generally within 24 hours. If you have not received notification, please follow up.

Questions? Contact awards@asce.org.

EXAMPLE – NOMINATION FOR A PROJECT

Pages 26 to 30 are provided as reference.

[REDACTED]

October 25, 2018

ASCE
Honors and Awards Program Office
1801 Alexander Bell Drive
Reston, VA 20191-4400

Dear ASCE Innovation in Sustainable Engineering Award Committee Members, On behalf of [REDACTED] and the entire project team, I'm proud to nominate [REDACTED] for the 2019 ASCE Innovation in Sustainable Engineering Award. This project provides [REDACTED] with an economically, socially and environmentally sustainable power plant made possible by innovative technology and dedicated collaboration.

In addition to providing a long-term power generation solution for the community, [REDACTED] is a landmark achievement for the largest infrastructure project in city history. The plant demonstrates a paradigm shift in the power industry by providing a new gateway to the city, restoring native wetlands for the community, and expanding the well-known snow-melt system to meet harsh winter demands.

The construction of a power plant is an enormously complex and challenging project in itself, especially when the plant was determined to be built on the eastern edge of a busy downtown area. The preliminary design of the plant laid out technical requirements, but the engineering team was then further challenged by the [REDACTED] who invited an Architectural Blue Ribbon Panel of educational, environmental, and community leaders to make the project a destination and a worldclass resource that provides a sustainable, long-term energy source and educational hub.

Sincerely,

[REDACTED]
[REDACTED]
[REDACTED]

[REDACTED]

[REDACTED]



INNOVATION IN SUSTAINABLE ENGINEERING AWARD
ENTRY FORM

Entries for the Innovation in Sustainable Engineering Award require a complete nomination package that includes this entry form. Entries are due to the Honors and Awards Program office by 5:00 PM Eastern Time, April 22 (Earth Day).

PROJECT NAME: _____

ADDRESS: _____

As this award seeks to recognize built civil infrastructure projects, nominations of plans, drawings or other pre-construction documents are not eligible.

Projects can be entered if they meet the following requirements. Identify your project by checking the appropriate box and attesting to its eligibility:

- I. Projects that demonstrate innovation in sustainability are eligible.
 - Project demonstrates innovation in sustainability.
- II. Projects developed or implemented in the six-year period preceding the year of award are eligible. **October 20, 2017**
 - Project open date _____
- III. Projects not candidates for the Outstanding Civil Engineering Achievement (OCEA) Award are eligible.
 - Project is not a candidate for the OCEA Award.

Nominator's name: _____ Signature: _____

Telephone number: _____ Email address: _____

Describe the nominator's role:

- Nominator only
- Active in the project

If active in the project, describe activity: Project manager for owner's engineer. _____

Electronic submissions are encouraged to awards@asce.org. Paper submissions are also accepted, in which case the original complete nomination package must be mailed to the Honors and Awards Program office, ASCE, 1801 Alexander Bell Drive, Reston, VA 20191-4400.

Proceed to the next pages to complete your entry.

I. PROJECT INFORMATION

If your project is selected for the award, a personalized trophy will be presented. Complete this section to better describe your project.

Presented by the
American Society of Civil Engineers to

Project name: _____
(exactly as it should appear on the trophy)

Name of owner: _____

Project Location: _____
(City, State, Country)

Innovation in Sustainable Engineering Award

II. ABOUT THE PROJECT – Award Criteria

A.

Describe the extent to which innovative design or construction methods improve the economic, social and environmental sustainability. (500 words or less)

DESIGN FOR EFFICIENT POWER GENERATION

Choosing natural gas over the previously proposed coal plant allowed the community to minimize their carbon footprint. The choice, along with a holistic approach to energy efficiency, will contribute to halving the community's carbon footprint over the next 40 years.

Early in the design phase, the team implemented an energy reduction plan—incorporating LED lights, "dark sky" lighting, leaving the switchyard and cooling tower mostly dark, and designing just enough light across the grounds for safety. Additionally, insulating and sealing the building envelope, and using efficient mechanical systems contribute to the building being 30 percent more efficient than required code. Plus, by designing the plant with low-flow fixtures and native plants, the team reduced total water use by 25 percent over baseline estimates.

Finally, the plant can discharge cooling tower blow-down and stormwater runoff into an on-site lagoon. While reducing the flow discharged to city sewers, the plant will also save money for ratepayers, delay rate increases and further [redacted] commitment to being good stewards of financial resources.

ENVIRONMENTAL EFFORTS CONTINUE OUTSIDE THE PLANT

Bordered by 15 acres of scenic wetlands, the new community park features overlooks, water features, and bike paths and is a natural segue into community trails. By enclosing major equipment, the team preserved views from [redacted] and [redacted]. It will also connect the [redacted] trail system to [redacted].

The project team took extreme measures to conserve wildlife. To begin, they completed a biodiversity assessment, which inventoried animals in the habitat and the impacts of construction and plant operation. They also teamed up with [redacted] Young Connections and [redacted] to build bird and bat boxes, clean up trails and restore the wetlands.

Prior to revitalization, the neglected site was riddled with invasive species, including Japanese and Giant Knotwood, Phragmites, and others. The project used eradication strategies to remove the invasive species and seeks to re-establish threatened, endangered and species of concern, which also will help remove the invasive species.

RECYCLING THE DECREPIT NEIGHBORHOOD

Declared a brownfield prior to construction, site cleanup included recycling 12,000 tons of building materials, 350 tires and 390-cubic-feet of plywood. The team salvaged fixtures, and repurposed tree trunks for landscaping and wildlife habitats, and reused two structures and a historic house during construction. Upon project completion, two structures were sold for reuse, while the historic house was auctioned and relocated. In total, nearly 65 percent of materials were reused, and 89 percent of materials were diverted from landfills.

Site excavation resulted in no soil or material being taken off-site except two contaminated areas. The team also used locally sourced material whenever possible. Nearly 65 percent of materials used in construction were regionally sourced, while more than 80 percent of the new plant's components can be disassembled and recycled at the end of their useful life.

B.

Describe the promise shown by the innovation to extend future developments in sustainability which may be evidenced in part by Envision rating and / or institute, section or branch sustainability awards. (500 words or less)

The new [redacted] is the first power plant to receive the Institute for Sustainable Infrastructure's Envision Platinum verification, validating the community's 40-year plan for a sustainable energy future and to reduce energy demand throughout the city. The new plant meets several environmental objectives, including a modern building design with an insulated and sealed building envelope, a 50 percent reduction in carbon emissions, the virtual elimination of solid particle pollutants, doubling the previous plant's efficiency, a one-of-a-kind public space and trail system, and the latest in combined-cycle natural gas generating technology.

As the first Envision Platinum-verified energy plant, [redacted] offers a blueprint for other utility companies to meet environmental objectives. Not only did [redacted] build one of the most efficient plants, but they did so while restoring a rundown area within the city, rehabilitating the natural environment and integrating the plant with other sustainability efforts citywide.

INTEGRATING NEW INDUSTRIAL IN THE CITY

With [redacted] online, industrial-looking power plants may be a thing of the past. [redacted] brings a new approach to what a power facility and design process should look like. Combined with a blue ribbon panel of local leaders, architects hosted three workshops with [redacted] and city officials, as well as representatives from [redacted]. [redacted] features walking trails, gardens, mature trees, reflecting ponds, restored native plant species and refreshed wetlands — a far cry from the site's previous junk piles, worn-out houses and old industrial buildings. Designed to make people feel comfortable, other communities have taken note — with several inquiring about the community energy plan and sustainable return on investment process.

PLANT RESILIENCY AT THE FOREFRONT

[redacted] sought a location for [redacted] where flooding concerns were minimal. Site grading further raised the plant out of the 500-year floodplain, and the team took extra steps to reduce the quantity of impervious surfaces at the site — reducing the total by more than 10 percent.

NEIGHBORHOOD SOUND ANALYSIS

Because of the vicinity of the new plant to a residential neighborhood, the team conducted an ambient noise survey prior to construction to understand the area's existing noise level. During construction, another survey was completed to further understand the impact on surrounding neighbors. The team completed a final study to predict the plant's noise levels at full operation. [redacted] instituted a self-imposed limit of 50 dba at the property boundary and implemented design features intended to ensure compliance with the self-imposed limit. The design features included ultra low-noise cooling tower fans, a cooling tower barrier wall, inlet silencers, and the plant enclosure itself.

C.

Describe the degree to which the project extends the public's understanding of sustainability in engineering and construction as demonstrated by working with the public at the planning, design, construction and operation stages of the project. (500 words or less)

After more than five years in litigation during the conceptual phase and escalating costs of proposed power projects for the next half-century, the [redacted] partnered with [redacted] to carry out an exhaustive, first-of-its-kind sustainable return on investment study to look at the financial, social, economic, environmental and health impacts of various generation options. [redacted] launched Power for the 21st Century (P21), a community outreach, engagement and communications effort. Through the process, [redacted] gained unanimous consensus that natural gas with a supplemental renewable power purchase agreement for was the best way forward.

The project was developed with the leadership of an architectural blue ribbon panel of education, environmental and community leaders who sought to make [redacted] both a destination and a gateway to downtown [redacted], which integrates into the surrounding natural space. The project meets three goals: to be a world-class resource that provides a sustainable, long-term energy source and an educational hub; to be a destination that provides public activities to connect people to the community; and to be a gateway — enhancing access to open space and allowing people to enjoy the area. To accomplish this, the team hosted several education sessions with experts speaking on potential fuels, electric generation, district heating, transmission and energy conservation to further educate the community.

INTUITIVE DESIGN FOCUSES ON SERVING AND EDUCATING THE PUBLIC

Cutting through the center of the plant, the "red spine" features a \$1.2 million visitors center — an interactive space to learn about energy at home and in the community. Built with a community panel to determine the exhibits and learning experiences, the spine also functions as a science museum, offering views into the guts of the power plant, exhibits and touch screen stations that teach the public how the plant operates. Visitors can also play a game to create an energy-efficient home.

The grand opening in early October was attended by more than 250 people and included local dignitaries. Going forward, the space will be open to the public for self-guided tours and group visits.

COMMUNITY ENGAGEMENT

None of this would be possible without the community's input. From the launch of the community energy plan to today, there has been resounding support for the project. A lynchpin in that support was the Power for the 21st Century (P21) communication plan, which demonstrated [redacted] commitment to broad-based community engagement to inform the community about critical decisions and issues, as well as solicit their input. [redacted] website featured information on decision-making, feedback and the project. The P21 process stood as a complete and transparent record of the process from beginning to end. This could not have been more apparent than the three days when the heat recovery generators were moved through [redacted] — which arrived to cheering spectators lining the route. A year after its opening, the plant has welcomed more than 3,600 visitors and counting.

D.

Describe how collaboration was an important aspect of the project as demonstrated by significant participation by other disciplines on the team. (500 words or less)

The [redacted] project demonstrates the power of collaboration from start to finish. The P21 Process and blue ribbon architectural panel brought community stakeholders together with project the [redacted] and [redacted] to determine the look of the final project. [redacted] worked with [redacted] and [redacted] through a value engineering and open-book contract period to further define and finalize the project scope and materials. The project participants worked tirelessly to collaboratively define and execute the project.

As the owner's engineer, we tapped a diverse range of expertise from more than 70 of our teammates to help bring the project to life. We listened closely to understand stakeholders' concerns and priorities by leading a Sustainable Return on Investment process — a first-of-its-kind for the power generation industry — in tandem with a traditional alternatives analysis. One option rose to the top: a 2-on-1 combined cycle plant. Our architects then worked with stakeholders to capture the essence of what the plant and site could become.

HOW TO NOMINATE AN EDUCATIONAL PROGRAM

ASCE has one Society Award for an educational program. It is the Walter LeFevre Award.

The Official Nomination form is not used for this entry.

Instead, you will use the award-specific form available on the award's website:
<https://www.asce.org/-/media/asce-images-and-files/career-and-growth/awards--and-honors/documents/walter-lefevre-award-nomination-form.pdf>

Step 1 – Completed on page 11.

Step 2 – Your complete nomination package must include:

- a) A completed entry form.
- b) Attachments described in the entry form.

Step 3 - Submit your complete package (single PDF preferred) to awards@asce.org.

Step 4 - Once submitted, you will receive acknowledgement, generally within 24 hours. If you have not received notification, please follow up.

Questions? Contact awards@asce.org.

EXAMPLE – NOMINATION FOR AN EDUCATIONAL PROGRAM

Pages 33 to 37 are provided as reference.

January 11, 2022

Committee on Curricula & Accreditation
American Society of Civil Engineers
1801 Alexander Bell Drive
Reston, VA 20191

Dear selection committee,

Please accept this nomination of the Civil Engineering Program at the [REDACTED] for the [REDACTED] Walter LeFevre Award. I think you will see from the information presented that the [REDACTED] Civil Engineering program embodies the high standards of licensure, ethics and professionalism represented by the LeFevre Award.

The information presented in this packet reflects student performance on the Fundamentals of Engineering (FE) Examination based on results from the [REDACTED] Civil Engineering Class of [REDACTED] that graduated in May and December of [REDACTED]. The percentage of faculty licensure is based on the civil engineering faculty present at the end of [REDACTED]. Documentation showing student performance on the FE examination is enclosed.

Please contact me if you require any additional information concerning this nomination. You may reach me at [REDACTED] or by email at [REDACTED]. Thank you for your thoughtful consideration of this nomination.

Respectfully,

[REDACTED]
[REDACTED]
[REDACTED] Department of Civil and
Environmental Engineering

Enclosures

- Official Award Nomination Form
- Walter LeFevre Award Nomination Form
- Statement in Support of Nomination
- FE Exam Results (FE-Civil, 34 students)



Walter LeFevre Award Nomination Form

Nominations for the Walter LeFevre Award require submittal of both an Official Nomination Form and a Walter LeFevre Award Nomination Form. Please respond to the following questions and submit one copy of the complete nomination package to the ASCE Honors and Awards Program office before January 15.

This nomination is submitted for consideration in the category of (please check the appropriate box).
Large Programs (greater than 50 graduates) _____
Small Programs (50 graduates or fewer)

Name of Department: Department of Civil and Mechanical Engineering

Head of Department: _____

College or University: _____

Nominations are only accepted on behalf of EAC of ABET-accredited civil engineering or related programs.

ABET accredited? Yes No _____

Mailing Address: _____

Email Address: _____ Phone: _____

Percent of graduates in a particular Academic Year who took the FE while enrolled in the program. (A minimum of 60% is required) 85%

Percent of graduates who passed the exam while enrolled in the program. (Attach the NCEES Report) 76%

Percent of eligible faculty who are licensed in a US jurisdiction. 100%

Provide a narrative, not to exceed two (2) pages, specifically discussing how licensure, ethics, and professionalism are addressed in the curriculum and in activities carried out by the department. Describe improvements made over the previous Academic Year.

I attest to the correctness of the data presented herein.

(Signed) _____, Department Head on _____ (Date)

(Print Name) _____

(Signed) _____, Dean on _____ (Date)

(Print Name) _____

Submit the completed nomination package in its electronic form to awards@asce.org or by hard copy to: Honors and Awards Program, American Society of Civil Engineers, 1801 Alexander Bell Drive, Reston, VA 20191-4400

Civil Engineering Program

Department of Civil and Environmental Engineering
[REDACTED]

Statement in Support of Nomination to Receive the Walter LeFevre Award

Program Overview: The Civil Engineering (CE) Program in the Department of Civil and Environmental Engineering at the [REDACTED] places a strong emphasis on the importance of licensure, ethics, and professionalism. The strong moral and ethical framework established as the foundation for [REDACTED] development at [REDACTED] is integral to the civil engineering program. The nomination is for the small program category, as the program had 40 graduates in [REDACTED]

Faculty Establishing the Environment. The [REDACTED] Honor Code states, "We will not lie, steal or cheat, nor tolerate among us anyone who does." The [REDACTED] A Class of 1959 wrote and adopted the Honor Code, which serves as a foundational element that supports the [REDACTED] mission:

To educate, train and inspire men and women to become [REDACTED] of character motivated to lead the [REDACTED]

The civil engineering program faculty place significant emphasis on professional licensure. It has become routine in the department for faculty members to be preparing and studying for professional licensure exams, and the department leadership has provided resources and time to set the conditions for success. Two faculty members earned their professional license in [REDACTED], so now all [REDACTED] of the faculty members in the program are licensed professional engineers. Two faculty members are also involved with the National Council of Examiners for Engineers and Surveyors.

[REDACTED]

The faculty set the standards for the [REDACTED], and as a result, the [REDACTED] see the value in preparation for the exam and appreciate the faculty's commitment to achieving professional licensure.

The faculty also had a significant impact in [REDACTED] on the [REDACTED]'s mission with greater involvement in several professional and ethical programs. [REDACTED]

[REDACTED]

Lastly, all of the faculty couple their personal and professional experiences with the ASCE Code of Ethics into their courses to build a strong foundation of engineering professionalism and ethics for [REDACTED].

Thriving in the Environment: In [redacted], there was clear evidence of [redacted] embracing and thriving in the environment established by the faculty. Normally, 100% of the [redacted] take the Fundamentals of Engineering Exam; however, this was not the case in [redacted] due to COVID. Seventy six percent (26/34) of the [redacted] who took the FE Exam in [redacted] passed it. Although 76% is slightly below the program's five year average of 83% passing, it is still above the national average.

[redacted] from within the civil engineering program are also involved with character and honor related aspects of the [redacted] [redacted], a senior civil engineering major, was one of the lead planners for the [redacted] National Character and Leadership Symposium at the [redacted]. The symposium is the [redacted]'s annual flagship event on character and leadership and brings together distinguished scholars [redacted] leaders, corporate executives and world-class athletes to motivate and equip participants for honorable living and effective leadership.

[redacted]

The [redacted]'s core values of Integrity, Service before Self, and Excellence are also integral to the developmental experience of our civil engineering majors as they all take Philosophy 310, which is a course specifically focused on Ethics. Additionally, ethics are woven throughout the civil engineering curriculum, including having an invited guest speaker talk about ethics in the senior seminar course. Civil engineering [redacted] are surveyed during their final semester and asked to provide feedback on how well they can recognize professional and ethical responsibilities in engineering situations and make informed judgments in global, economic, environmental, and societal contexts. They provided their responses in a Likert scale that ranged from 1 (strongly disagree) to 6 (strongly agree), and the results below suggest that they are internalizing the ethical responsibilities of becoming an engineer.

Area/Context	Average Response
Global	5.54
Economic	5.46
Environmental	5.12
Societal	5.29

Civil Engineers – Embodying the LeFevre Award: We feel the [redacted] Civil Engineering program, faculty, and [redacted] set the national standard for learning and appreciating the value and importance of engineering licensure, professionalism, and ethics; thus embodying the characteristics of the LeFevre Award.



Examination: Fundamentals of Engineering (FE)
Report Title: Subject Matter Report by Major and Examination
Exams administered: Jan 01 – Jun 30, 2001
Examinees included: First-Time Examinees from SACNET-Accredited Engineering Programs
Graduation Date: Examinees Testing within 12 months of Graduation Date

Name of Institution: [REDACTED]	
Major: Civil	FE Examination: Civil

	Institution	ADET Comparator ²
No. Examinees Taking ¹	34	5,813
No. Examinees Passing	26	4,072
Percent Examinees Passing	76%	70%

Uncertainty
 Range for
 Scaled
 Score ⁴
 ± 0.17

	Number of Exam Questions	Institution Average Performance Index ³	ADET Comparator Average Performance Index	ADET Comparator Standard Deviation	Ratio Score ⁴	Scaled Score ⁴
Mathematics and Statistics	8	8.4	9.5	2.5	0.88	-0.04
Ethics and Professional Practice	4	11.2	10.8	3.8	1.00	0.17
Engineering Economics	5	9.0	9.9	3.2	1.00	0.00
Statics	8	8.7	8.2	2.4	0.95	-0.21
Dynamics	4	8.9	8.6	3.5	0.93	-0.20
Mechanics of Materials	7	8.9	9.2	2.3	0.97	-0.13
Materials	5	9.5	9.3	2.8	1.02	0.07
Fluid Mechanics	6	8.8	9.7	2.8	0.99	-0.04
Surveying	6	8.6	9.4	2.4	0.91	-0.33
Water Resources and Environmental Engineering	10	9.8	9.3	1.8	1.05	0.28
Structural Engineering	10	8.7	8.9	1.7	0.98	-0.12
Geotechnical Engineering	10	9.2	9.2	1.8	1.00	0.00
Transportation Engineering	8	9.0	9.2	2.0	0.98	-0.10
Construction Engineering	8	10.1	9.3	2.4	1.04	0.33

1. 8 examinees have been removed from this data because they were flagged as a random guesser.
2. Comparator includes all examinees from programs accredited by the ADET commission tested.
3. Performance Index is based on a 0-15 scale.
4. These scores are made available for assessment purposes. See the NCEES publication entitled Using the FE as an Outcomes Assessment Tool at <http://nces.org/education/outcomes/assessment/>.

TERMS AND CONDITIONS OF DATA USE

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