



The Future of Building

2021 ANNUAL REPORT



CONSTRUCTION INDUSTRY INSTITUTE

OUR VISION

Leveraging new ideas, unique forms of collaboration, and knowledge across the capital project and facility lifecycle, CII provides unmatched advocacy for the built environment.

CII envisions an efficient capital projects industry that
BUILDS PREDICTABLE VALUE
for member organizations, society and stakeholders.

5

NEW PUBLICATIONS
IN 2021

\$1.47M

IN RESEARCH
PAYMENTS

77

NOMINATIONS FOR
NEW RESEARCH TEAMS

10

NEW PROJECTS
IN 2021

15

ONGOING
PROJECTS

350+

MEMBERS IN
ONGOING RESEARCH
TEAMS

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TO OUR MEMBERS
**Leading our
Industry**



2021 INTERIM CHAIR

DURING MY ROLE AS CII'S CHAIR IN 2021,

I had the distinct honor and privilege to work with a diverse team of dedicated and remarkably talented leaders. Together, we continued to execute on our strategic priorities and provided valuable outcomes to members, like the launch of CII's Data Warehouse and much-anticipated research on Capital Efficiency.

After more than two decades of volunteering in CII, I can honestly say the very best part of this experience is the team of incredibly passionate and exceptionally hard-working members collaborating to improve our industry. We accomplished a lot in 2021, and I thank you for the opportunity to help lead your Institute last year.

DOUG OMICHINSKI
Bechtel Global Inc.



2022 CII INCOMING CHAIR

WE ARE STILL EXPERIENCING unprecedented times, and I am inspired by CII's equally unprecedented commitment to responding to the needs of our industry. I will remember 2021 as a year of accomplishments, progress, and hard work across CII's member organizations.

In 2021, our leadership team laid the groundwork for CII's nine focus areas, covered in more detail on Page 4. CII's Executive Leadership Program continues to deliver professional training to executives leading high-performing teams. Due to an increase in demand for executive trainings, CII launched a next-level executive development course intended for industry leaders at the senior level, called TEN20°.

Last year, CII made great strides in the areas of professional development, data analytics and meaningful research. After 20 years of service to CII, it is my distinct pleasure to step into the role of 2022 CII Chair.

TODD SVIHOVEC
Flint Hills, 2021 Vice Chair

Doing the Right Projects Right

CII is continuing to shape the future of building through groundbreaking research. In 2021, teams from across the industry investigated the role of data and advanced technologies, the impact of workforce needs and workplace culture, and the power of collaboration to drive value. Teams delivered original insights and practical tools to help organizations determine which projects should be built in the first place—and how.

RT-372

SMART DATA-CENTRIC LIFE CYCLE APPROACH TO COLLABORATIVE EXECUTION OF CAPITAL PROJECTS



Driving Value: Data and the Power of Disciplined Collaboration

Every stakeholder on a capital project needs access to the same, accurate information. But without guidelines, using diverse software tools to manage and share data, and support project goals is difficult. This team identified barriers to data sharing at both the organizational and project levels and **developed a framework with resources to help teams overcome those barriers** and continuously improve. Their work reveals that a smart data-centric, collaborative approach can establish a tightly-knit supply chain and minimize the risk of transferring flawed information during the many handoffs when developing, executing, turning over, operating, and maintaining capital projects.

RT-DCC-07

CAPITAL EFFICIENCY SCORECARD FOR DOWNSTREAM AND CHEMICALS PROJECTS



Score Your Capital Efficiency

When business and project teams are aligned, the efficiency of capital projects improves. This isn't easy in a competitive environment plagued by low rates of return and high cost overruns. Using an economic analysis of different projects, this team created a **Capital Project Efficiency Scorecard** to help organizations pick the right capital projects. The team identified 28 pivotal management processes to assess strengths, address gaps and help business and project teams better coordinate across capital management and project deployment.

RT-DCC-06

UPDATING PROJECT DELIVERY AND CONTRACT STRATEGIES



Delivering Performance

Project Delivery Systems (PDS) have come a long way in the last decade. This research team dug into the four major delivery systems and multiple subsystems to quantitatively evaluate the benefits and limitations of each. The team collected and analyzed 96 projects, calculating a **Project Performance Score** that allowed it to compare disparate projects. As a result, the team created a decision support tool that presents predictive scores to **help organizations choose the delivery system** best suited to drive the performance of their project.

FIND US ONLINE

FOR THE FULL RESEARCH, enter the report number at www.construction-institute.org/resources/knowledgebase.

TO GET INVOLVED in CII research, contact kldelaney@cii.utexas.edu.

WORKFORCE 2030

RT-373

MCPI — THE BUSINESS CASE FOR MODULAR CHEMICAL PROCESS INTENSIFICATION



Build the Plant You Need for Less

What if you could dramatically reduce the cost, footprint and time it takes to build your plant while gaining a faster payback? It's possible, based on the findings of the joint CII and RAPID Institute research team that **explored capital efficiency for modular chemical process intensification**. The team identified how using different technologies to build the plant you need can drive energy efficiencies, increase safety and lead to much greater capital efficiency.

87%

REDUCTION IN CAPITAL EXPENSE ACHIEVED IN AN MCPI CASE STUDY

RT-370

MODELING THE COMPOSITION OF THE 2030 WORKFORCE



Shape Your Future Workforce

What will your workforce look like in 2030? Based on current trends, it will include untapped technology at the jobsite with more multi-skilled, less mobile and older craft professionals. These are among the findings of the team examining issues across Technology, Workforce Skills, and Workforce Culture. Drawing on more than 1 million data points, the team tackled tough topics to explore the causes and motivations driving today's craft professionals. They also studied what it will take to attract and retain the next generation of workers, challenging leaders to "shape the future you need" to keep the industry healthy.

RT-371

ONSITE VS. OFFSITE — THE IMPACT OF OFFSITE CONSTRUCTION ON THE WORKFORCE



Get Ready for 2030 with Offsite Construction

As offsite construction continues to grow, companies can take advantage of this shift by preparing their workforce now. This team developed a maturity model and scoring system to help companies assess, benchmark and track their progress; a recommended list of technologies; and ideas for planning, managing and training their workforce. The team also created a framework for organizational improvements and a proactive, forward-thinking roadmap to evaluate progress as companies move to, and leverage, offsite construction.

NEARLY

41%

OF THE CONSTRUCTION WORKFORCE WILL RETIRE BY 2030

Evolving to Thrive in a Changing World

CII is continuing to shape the future of building through relevant research that helps drive an efficient capital projects industry. In 2021, CII defined *nine research focus areas* to meet the demands of our rapidly changing world.

These areas build on decades of research to create a diverse portfolio of tactical projects that can be implemented quickly and strategic projects that set a desired state and a path to achieve it. Teams can engage more kinds of expertise and balance speed with quality to innovate, collaborate and deliver original insights and practical tools that can be accessed easily and continuously improved.

CII FOCUS AREAS

Pursuing Capital Efficiency

Further expand beyond predictability to ultimately address the efficacy of capital projects

Leading Advanced Work Packaging (AWP)

Maintain CII's thought leadership as new AWP ideas and applications continuously emerge

Tool and Practice Selection – Deployment Concierge

Create tools to help CII members better use its valuable research, educational resources and services required to implement practices effectively while setting the foundation for integrating tools and a vision for digitally delivering CII practices

Implications of ESG Drivers

Understand how environmental, social, and governance (ESG) criteria may affect the type, selection and execution of future projects

The Workforce of 2030

Define an ideal state for the workforce of the future and how to achieve it, helping companies address issues today while preparing companies for the future's workforce

Integrated, Collaborative Delivery for Better Business Results

Define the means to promote more effective delivery leveraging integration, collaboration and new business models

Thriving in a Circular Economy

Provide actionable strategies and tools for increased sustainability in the delivery of capital projects and resulting assets

Cultivating Change

Define how capital project organizations can become more agile when facing an increased rate of change, especially when driven by a global pandemic, decarbonization and regulation

Digital Transformation

Provide guidance to capital project organizations on how to envision, define and progress on their path to digital transformation

Measuring Success in Real Time

CII's Data Warehouse has turned decades of performance assessments and best practices into a first-of-its-kind benchmarking and research platform. Launched in August 2021, the Data Warehouse combines 25 years of benchmarking expertise with advanced computational capabilities and data expertise from the Texas Advanced Computing Center (TACC).

Members can gain relevant comparisons and rich details on how well a project may perform on factors such as cost, scheduling, safety, resource use efficiency, and engineering and manufacturing productivity. The platform draws aggregated data from thousands of completed projects and makes it easy for members to add their own project data anonymously. Importantly, these data are never sold.

Within the Data Warehouse, Project Labs that group like projects together to generate deeper insights are already forming. Given the wealth of data being collected, efforts are under way to apply techniques, such as machine learning, for future predictability and real-time performance benchmarking.

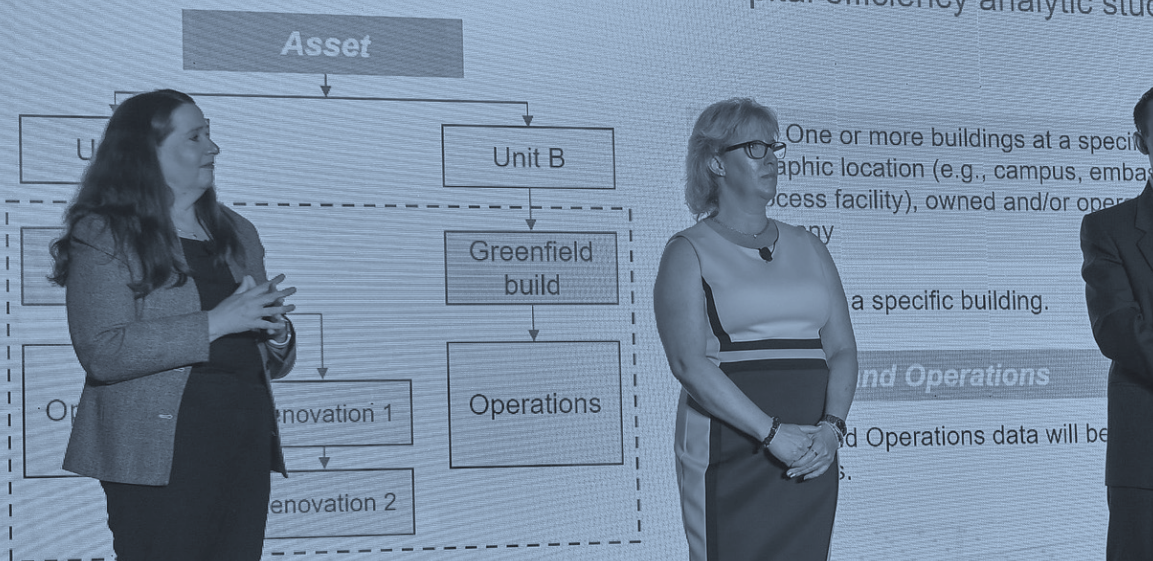
FOR MORE INFORMATION



www.construction-institute.org/resources/performance-assessment/cii-pdw

Data Warehouse "Asset" Model – Available in 2022

Designed to support robust, multi-level capital efficiency analytic studies



2021 CII-CURR... RENCE

Expanding CII's Impact

Creative partnerships and smart alliances draw on deep CII expertise to provide innovative and flexible resources that build the management skills of both seasoned construction professionals and those new to the capital projects environment.

2021 HIGHLIGHTS INCLUDE:

CII Best Practices Courses

This semester-long graduate-level course covering all 17 CII Best Practices was offered to 186 students at nine universities in 2021. The course addresses current issues and offers real-world, proven construction management practices that can be applied immediately. Each class is taught by industry subject matter experts from top CII member companies, sharing their knowledge and expertise with the next generation.

2021 PARTICIPATING UNIVERSITIES:

- Arizona State University
- Clemson University
- Florida International University
- Georgia Tech
- University of Houston
- Missouri S&T
- University of Nebraska-Lincoln
- University of Texas at Austin
- Vanderbilt University

The screenshot shows the CII Knowledge Base website. The header includes navigation links: Membership, Resources, Groups, Events, Awards, About CII, Blog. Below the header is a search bar and a breadcrumb trail: Home > Resources > Knowledge Base > Best Practices. The main content area is titled "Best Practices" and includes a definition: "A CII Best Practice is a process or method that, when executed effectively, leads to enhanced project performance. CII Best Practices have been proven through extensive industry use and/or validation." Below this is a list of Best Practices with dropdown menus: Advanced Work Packaging, Alignment, Benchmarking & Metrics, Change Management, Constructability, and Disputes Prevention & Resolution. A sidebar on the right contains "Portals" (10-10 Mentors, Best Practices, Knowledge Areas, Project Functions or Roles, Project Phases, Clearing, AWP Overview, AWP Virtual Summit, PDR Overview) and "Best Practices" (CII Best Practices Feedback, About the Best Practices Portal). A large graphic at the bottom of the screenshot displays "40% INCREASE IN THE NUMBER OF PARTICIPATING STUDENTS OVER LAST YEAR".

FIND US ONLINE CONSTRUCTION-INSTITUTE.ORG/resources/education

2021 CII-CURT
JOINT CONFERENCE

Leading our Industry

OUR WORLD-CLASS ANNUAL CONFERENCE brought more than 400 CII members together to share innovative ideas, learn, honor peers and network.

The photograph shows two men in a simulator booth. One man is wearing a blue shirt and a baseball cap, and the other is wearing a purple shirt and a face mask. They are both looking at a laptop screen. In the background, there are other people and a booth for "MILLER COMPANIES".

IN 2021, CII DELIVERED RESULTS FOR 6 RESEARCH PROJECTS AND KICKED OFF 10 NEW RESEARCH TEAMS.

6
RESEARCH
PROJECTS

10
RESEARCH
TEAMS

PMI Certification

CII has teamed with the **Project Management Institute** to develop the **Construction Professional in Built Environment Projects (CPBEP)™ certification**. Through seven online, self-paced courses, this new learning solution builds on CII Best Practices to provide the skills and knowledge needed to bring large, complex construction projects to life profitably, efficiently, and sustainably.

CII Registered Education Providers (REP)

CII accepted 11 organizational REPs from around the globe in 2021. They provide CII member organizations and the general public with a **corps of professional instructors who are familiar with CII materials**, including its practices, research findings, Knowledge Base resources, publications, tools, and methodologies. CII REPs are available to hold educational offerings at CII member organizations and other venues, as well as virtually.

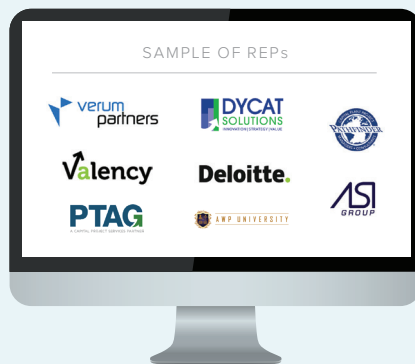
CII Online Education (OLE)

This year, CII added two new online courses to its online course catalog: Front End Planning and Introduction to Project Risk Assessment. These new courses increase the catalog to **10 stand-alone courses and four learning paths** for a total of 22.5 earnable Professional Development Hours (PDHs).



Project Management Institute.

> [PMI.ORG/certifications/construction](https://www.pmi.org/certifications/construction)



110+

MEMBER COMPANIES OPTED FOR THE ORGANIZATIONAL OLE SUBSCRIPTION IN 2021



Building our Future

As the premier research and development platform for the engineering and construction industry, CII and its members are driving innovative solutions that tangibly improve business outcomes to advance our industry and shape the future of building.

CONTRACTORS

Alfred Miller Contracting APTIM	Day & Zimmermann Digital Construction Works	JGC Corporation KBR	POWER Engineers, Inc. Primus Builders	Toyo Engineering Corporation
Baker Concrete Construction Inc.	Emerson Exyte U.S. Inc.	Kiewit Corporation Larsen & Toubro Limited	Richard Industrial Group Samsung C&T	United Engineers &Constructors, Inc.
Barton Malow Company Bechtel Group, Inc.	Faithful+Gould Fluor Corporation	MasTec Power Corporation Matrix Service Company	Sennaat/NPCC SNC Lavalin	Victaulic Wood
Black & Veatch Brown & Root	H+M Industrial EPC Hargrove Engineers + Constructors	McCarthy Building Companies, Inc.	Techint Engineering & Construction	Worley Zachry Group
Burns & McDonnell Chiyoda Corporation	Hatch Hexagon PPM	McDermott International, Inc.	Technip Energies Technip FMC	
Clough USA CRB	Jacobs	PCL Constructors, Inc. PLH Group	thyssenkrupp Industrial Solutions (USA), Inc.	

OWNERS

AdvanSix Air Products	Consolidated Edison Company of New York	Kaiser Permanente Koch Industries, Inc.	ONEOK, Inc. Ontario Power Generation	The Dow Chemical Company
Albemarle Corporation American Transmission	Covestro LLC DTE Energy	Los Alamos National Laboratory	Petronas Phillips 66	The Procter & Gamble Company
Anheuser-Busch InBev Aramco Services Company	DuPont Eastman Chemical Company	LyondellBasell National Aeronautics & Space Administration	Public Service Electric & Gas Company	The Williams Companies, Inc.
Archer Daniels Midland Company	Energy ExxonMobil Corporation	Naval Facilities Engineering Command	Reliance Industries Limited (RIL)	U.S. Army Corps of Engineers
Architect of the Capitol Ascend Performance Materials	General Electric Company GlaxoSmithKline	New York Power Authority NOVA Chemicals Corporation	SABIC - Saudi Basic Industries Corporation	U.S. Department of Commerce/NIST
AstraZeneca BHP Billiton	Global Infrastructure Partners	Nuclear Decommissioning Authority	Sanofi Shell Global Solutions US Inc.	U.S. Department of Energy U.S. Department of State
Cargill, Inc. Chevron	Honeywell International Inc.	Nutrien Occidental Petroleum Corporation	Smithsonian Institution Southern Company	U.S. General Services Administration
CII ConocoPhillips	INEOS Group Holdings S. A. Johnson & Johnson		TC Energy Tennessee Valley Authority	Veteran's Administration Zachry Corporation

SERVICE PROVIDERS

Accenture Alvarez & Marsal Asite	Command Alkon Construct-X, LLC Continuum Advisory Group	EPM Group ASI Hilti Corporation	O3 Solutions Oracle USA, Inc. Pathfinder, LLC	Valency Inc. Verum Partners Zurich
Autodesk, Inc. AVEVA Solutions Ltd. AWP University	Dassault Systèmes SE Deloitte Detect Technologies	I.M.P.A.C.T. iConstruct Insight-AWP Inc.	PTAG, Inc. SkyCam Aviation, Inc. T. A. Cook Consultants Inc.	
Bentley Systems	DyCat Solutions	Layher, Inc.	Trillium Advisory Group Ltd.	



Valuable Collaboration

PIP (*Process Industry Practices*) develops and implements common industry practices for facility design, procurement, construction, operations, and maintenance that help reduce a facility's total cost of ownership. Members share their collective wisdom by collaborating to define and document best practices for all members to use while pursuing a long-term goal of digitally delivering PIP practices.

Together, members stay on top of emerging trends in more than 500 PIP practices that are arranged by disciplines.

PIP DISCIPLINE CATEGORIES

PROCESS, MECHANICAL, PIPING, CSA, I/E, DATA MANAGEMENT

www.pip.org/practices

CONTRACTORS

AECOM	Fluor	Job Industrial	Mott MacDonald	UniversalPegasus
ATSI	GIS Engineering	KBR	NORAM E&C	International
Audubon	Hargrove & Assoc.	Kent	OnQuest	Wood
Bechtel	IHI E&C	Keystone	POWER Engineers,	Worley
Burns & McDonnell	International	Engineering	Inc.	Zachry
Burrow Global	Corporation	Kiewit Engineering	Preferred	
CDI Corporation	IQA Solutions	& Design	Engineering	
Chemex Global	ITAC	McDermott	Samsung	
Clough	Jacobs	Merichem	Technip Energies	
CTCI	JGC America	Merrick & Company	TWD	

OWNERS

3M Company	Chevron	Hess Corporation	Livent	PPG Industries
AdvanSix	CITGO	Hexion	LSB Industries	PVS Chemicals
Aera Energy	Cornerstone	Honeywell	LyondellBasell	REXtac, LLC
Air Liquide	Chemical	Honeywell UOP	Methanex	SASOL
Advanced	Covestro	Huntsman	Mitsubishi	Saudi Basic
Materials	DuPont	Hydrite Chemical	Mosaic Fertilizer	Industries
Archer Daniels	Eastman	Indorama Ventures	Motiva Enterprises	Corporation -
Midland (ADM)	Elementis	INEOS Olefins &	LLC	SABIC
Arkema	Evonik	Polymers	Nacero	Sekisui Specialty
Ascend	ExxonMobil	INEOS Styrolution	Nuclear Fuel	Chemicals
Performance	Firestone Polymers	Innophos	Services	Sempre LNG
Materials	Flint Hills	International Paper	Nutrien	Targa Resources
BASF Corp.	Resources	(IPaper)	Occidental Oil & Gas	The Lubrizol Corp.
Bayer Group	FMC Corporation	Invista	OLIN Corp.	Westlake Chemical
BP	FutureFuel	Koch Industries,	OQ (formerly OXEA	Williams
Buckeye Partners	Chemical Co.	Inc.	Corporation)	Companies
Cargill	Grupo Petrotekemex	LANXESS	Pembina Pipeline	Zeon Chemicals L.P.
Celanese	(GPT)	Corporation	Phillips 66	

2021 Financial Report

Construction Industry Institute, The University of Texas at Austin

2021 Financial Report | December 31, 2021

Does not include financial information for PIP

YTD (12/31/2021)

REVENUES

Contract & Grants	\$744,833
Gifts & Contributions	—
Member Dues	4,283,922
Events / Meetings	807,910
Education / Training	392,865
Licensing and Commercialization	76,087
Administrative Services (Subsidiaries)	60,000
TOTAL REVENUES	6,365,617

EXPENSES

Research at UT	403,002
Research External	712,217
Development at UT	232,572
Development External	135,343
Marketing	92,476
Events / Meetings	760,304
Education / Training	188,840
Administrative Services	198,512
Staff Salary and Fringe Benefit	2,610,234
Travel	73,316
Overhead - UT	50,927
Overhead - Research Project	97,132
Director's Discretionary	6,000
TOTAL EXPENSES	5,560,875

CHANGE IN AVAILABLE FUNDS BALANCE 804,741

BEGINNING AVAILABLE FUNDS BALANCE 2,062,683

ENDING AVAILABLE FUNDS BALANCE \$ 2,867,425

COMPOSITION OF AVAILABLE FUNDS

Required reserves	\$1,375,000
Director's discretionary	94,000
CCIS	76,771
Other available funds	1,321,654
ENDING AVAILABLE FUNDS BALANCE	\$ 2,867,425



Independent Accountants' Report

Dunagan ★ Jack LLP

Certified Public Accountants

INDEPENDENT ACCOUNTANTS' REPORT ON APPLYING AGREED-UPON PROCEDURES

DECEMBER 31, 2021

To the Management and Board of Advisors
Construction Industry Institute
Cockrell School of Engineering
The University of Texas at Austin

We have performed the procedures enumerated below on Member Dues and Available Funds reported in Construction Industry Institute's (Institute) 2021 financial report. The Institute's management is responsible for Member Dues and Available Funds reported in the 2021 financial report.

The Institute's management has agreed to and acknowledged that the procedures performed are appropriate to meet the intended purpose of reporting to the Board of Advisors. This report may not be suitable for any other purpose. The procedures performed may not address all the items of interest to a user of this report and may not meet the needs of all users of this report and, as such, users are responsible for determining whether the procedures performed are appropriate for their purposes.

The procedures and associated findings are as follows:

- We obtained from management the 2021 financial report to be included in the annual report.
- We obtained from management certain financial reports from *DEFINE, The University of Texas at Austin's software that accounts for the Institute's financial transactions.
- We obtained from management the QuickBooks company file that the Institute uses to supplement *DEFINE for financial reporting purposes.
- We have provided below a reconciliation of the Institute's "member dues" revenues from membership payments reported in *DEFINE to the 2021 financial report.
- We have provided below a reconciliation of the Institute's ending "available funds" balances from *DEFINE to the 2021 financial report.

*Reconciliation of Member Dues per *DEFINE to the 2021 financial report:*

Membership payments received per *DEFINE:	\$	4,208,500
Reconciling items:		
Add: 2021 member dues accrued (receivable)		520,020
Add: 2021 member dues received (deferred) in prior year		485,210
Less: 2020 member dues accrued in prior year		(509,900)
Less: 2022 member dues deferred		(514,800)
Add: 2021 Globalization Affiliate fees collected		95,030
Less: Unreconciled difference		(138)
Member dues reported in financial report	\$	<u>4,283,922</u>

3724 Jefferson Street ★ Suite 307 ★ Austin, Texas 78731 ★ (512) 420-8997 Main ★ (512) 420-2399 Fax
www.dunaganjack.com

Independent Accountant’s Report — Continued

Reconciliation of Available Funds per *DEFINE to the 2020 financial report:

Free balances per *DEFINE:	\$ 402,822
Add: Encumbered funds (not yet spent)	1,870,807
	<hr/>
Adjusted free balances per *DEFINE:	2,273,629
Reconciling items:	
Add: 2020 member dues accrued (receivable)	509,900
Add: Cockrell O/H rebate (receivable)	43,351
Add: Other accounts receivable	120,412
Less: 2021 member dues deferred	(485,210)
Less: 2021 Executive Leadership Program revenues deferred	(146,300)
Less: Accounts payable and accrued expenses	(172,109)
Less: CCIS Funds	(76,771)
Less: OS2 IAP Funds	(4,219)
Less: Miscellaneous reconciling items	—
	<hr/>
Ending available funds balance reported in financial report	<u>\$ 2,062,683</u>

We were engaged by Construction Industry Institute to perform this agreed-upon procedures engagement and conduct our engagement in accordance with attestation standards established by the American Institute of Certified Public Accountants. We were not engaged to and did not conduct an audit or review, the objective of which would be the expression of an opinion or conclusion, respectively, on Member Dues and Available Funds reported in the Institute’s 2021 financial report.

Accordingly, we do not express such an opinion or conclusion. Had we performed additional procedures, other matters might have come to our attention that would have been reported to you.

We are required to be independent of Construction Industry Institute and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements related to our agreed-upon procedures engagement.

This report is intended solely for the information and use of Management and the Board of Advisors of the Institute and is not intended to be and should not be used by anyone other than these specified parties.



Austin, Texas
February 25, 2022

2021 AWARD RECIPIENTS

CARROLL H. DUNN AWARD OF EXCELLENCE

For significant contributions in the construction industry that demonstrate leadership to a high degree of dedication to improving cost, scheduling, quality and safety of the capital facilities process.



Wayne Crew

Industry leader, CII Member, then ultimately the CII Director. Wayne dedicated his career

to improving the engineering and construction industry by preparing its future leaders for success and demonstrating a strong commitment to safety.

RICHARD L. TUCKER AWARD FOR LEADERSHIP AND SERVICE

For an active CII member that furthers the mission of CII through leadership, mentoring/advocating and ambassadorship.



Steve Cabano

Supportive leader who brings more than 30 years of project expertise to CII.

When he served as CII Chair in 2019, the Board of Advisors relied on his advice and leadership across CII's most important initiatives. Steve served on several CII research teams and on committees as diverse as Benchmarking, Implementation, and Strategic Planning before chairing the Executive Committee.

JAMES B. PORTER, JR. AWARD FOR TECHNOLOGY LEADERSHIP

Recipients show significant technology contributions to the construction industry while demonstrating personal dedication to the development and advancement of these technologies within capital projects.



Dr. Carl Haas

From RFID to digital twin, this dedicated educator and researcher from the University of Waterloo

has dedicated his career to exploring how technology improves construction projects, especially in the areas of automation and robotics.

2021 STAFF LIST



STEPHEN P. MULVA
Director



JOHN PALMER
Associate Director
for Technology



KIM ALLEN
Director of Operations



MICHAEL PAPPAS
Associate Director
for Deployment



JENNIFER BIEN
Associate Director
for Membership and
Communications



PAM WOOTEN
Manager of
Shared Services



TERRI BUVIA
Executive Assistant



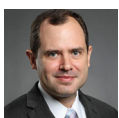
HONG ZHAO
Manager of
Financial Services



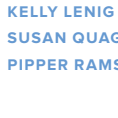
DEBORAH DEGEZELLE
Manager of
Information Services



BERNIE ROSENBLATT
DEBBIE SAMILPA
BOB WIBLE



DANIEL OLIVEIRA
Associate Director
for Funded Studies



ILA AWASTHI
NURIA AYALA
MICHAEL BURNS
ERIKA CORBELL
KRISTI DELANEY
KELLY LENIG
SUSAN QUAGLINO
PIPPER RAMSEY

Research Assistants
AMELIA CELOZA
ZHE YIN

CII MISSION

The mission of CII is to provide a research and development platform to create and drive innovative solutions that tangibly improve business outcomes through an academically-based, disciplined approach.



TEXAS
The University of Texas at Austin

CII | The University of Texas at Austin
3925 W. Braker Lane (R4500) Austin, Texas 78759-5316
(512) 232-3000

 [CONSTRUCTION-INSTITUTE.ORG](https://www.construction-institute.org)

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