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2023 AIA Fellowship

Candidate Nea Maloo AIA
Organization Showcase Architects/Howard university
Location silver spring, Maryland
Chapter AIA Washington DC;

Category of Nomination

Object 6 > Education

Summary Statement

Nea Maloo primes HBCU students for leadership, creating an essential pipeline for diversity and environmental justice. Her inclusive teaching integrates global equity with climate action and transforms architectural education to advance the profession worldwide.

Education

1998-1996,
Master of Architecture
School of Architecture and Planning, Anna University, Chennai, India

1996-1991,
Bachelor of Architecture
School of Architecture and Planning Chennai, Anna University, Chennai, India

Licensed in:

Washington DC #ARC 100836

State of Maryland #14591

Commonwealth of Virginia # 81226

Employment

ACADEMIA

2013-Present

Howard University
College of Engineering and Architecture
Department of Architecture, Washington, DC

2010-2014
University of District of Columbia Community College
Washington, DC

2003-2007
Montgomery Community College

Rockville, Maryland

PRACTICE

2007-Present

Showcase Architects

Founder, Architect

North Bethesda, Maryland

2004-2007

Interior Solutions Masterworks

North Bethesda, Maryland

2001-2004

Panoramic Design

Washington DC

1999-2001

Sorg and Associates

Washington DC

1998-1999

Sheladia Associates

Shady Grove, Maryland

1996-1998

S.S. Architects

Chennai, India.

NEA MALOO, AIA



“Education is the most powerful weapon which you can use to change the world”

Nelson Mandela

October 6, 2022
RK Stewart, FAIA, Chair, Jury of Fellows
The American Institute of Architects
1735 New York Ave NW
Washington, DC 20006-5292



Re | **Sponsorship of Nea Maloo AIA, NOMA to Elevation to Fellowship in The American Institute of Architects**

Chairman Stewart and Members of the 2023 Jury of Fellows,

It is with the greatest enthusiasm that I write to nominate Howard University Professor, Nea Maloo, AIA, NOMA, as a candidate for elevation to Fellowship in The American Institute of Architects. I have had the privilege of knowing Nea for over ten years and witness her consistent leadership in academic circles and in the community. We participated together in the early years of the "Riding the Vortex" initiative which was recently honored with the 2022 AIA Whitney M Young Jr. Award for its efforts toward increasing minority participation in the architecture profession. Nea has made it her personal calling to champion the design industry, equity, and global environmental concerns. For example, Professor Maloo **pioneered and created the Diversity, Equity, and Inclusion (DEI) Roundtable within NCARB** at a critical time in its organization's history.

Professor Maloo is a unique professional whose **successful interdisciplinary approach to academia, sustainability, and social justice is unparalleled in the profession**. Not only has Nea served as a model faculty instructor at Howard University and other institutions of higher education, but she also provides national leadership for academic, technical and professional organizations which positively influence the AEC industry.

Professor Maloo is an educator, entrepreneur, mentor and licensed architect. Her passion of teaching and mentoring has been a powerful inspiration to young aspiring architects, fellow colleagues, and academics across the country. Her multiple publications and lecture presentations are sought after for her unique multi-fold approach to addressing equity and climate change issues affecting our greater society.

Professor Maloo has developed **ACSA award-winning courses, such as "Environmental Justice + Health + Decarbonization"**, in the architectural curriculum that highlights inter-disciplinary approaches including departments of engineering and environmental studies. Nea has also created an original program in conjunction with Stanford University School of Engineering to generate new learning platforms through **national dissemination of "Building Decarbonization" course materials**.

In addition to her academic and professional successes, Professor Maloo's advocacy and community service includes a position as a Commissioner of the State of Maryland Board of Real Estate and a long-time Leader in the Boy Scouts of America.

With much respect and appreciation for her dedication and strength in service to her students, the academy, and the profession, I strongly support the advancement of Professor Nea Maloo, AIA, NOMA to Fellowship in the American Institute of Architects.

A handwritten signature in black ink, appearing to read "Kathy Denise Dixon", written over a light blue circular stamp.

Kathy Denise Dixon, FAIA, NOMAC, LEED AP+, NCARB, CDT

TRANSFORMING, EMPOWERING & EXPANDING

Nea Maloo primes HBCU students for leadership, creating an essential pipeline for diversity and environmental justice. Her inclusive teaching integrates global equity with climate action and transforms architectural education to advance the profession worldwide.

Transforming Architectural Education

Nea Maloo - architect, educator, and mentor - develops pedagogies that advance the **diversity, resilience and innovative potential** of the next generation of architects across the nation. Her interdisciplinary and multi-institutional collaborations reshape the architecture curriculum, merging design and performance with climate justice, reducing carbon and society. This dynamic synthesis creates a robust infrastructure that redefines the potential of academic thinking. Her ground-breaking course, "**Building Decarbonization-Theory to Practice**," developed with colleagues at **Stanford University**, exemplifies the power and reach of her approach. It was instrumental in establishing the Stanford Building Decarbonization Accelerator Learning Lab, which now **provides resources to over 150 universities and 300 allied industries** to teach students and professionals about ways to combat climate change.

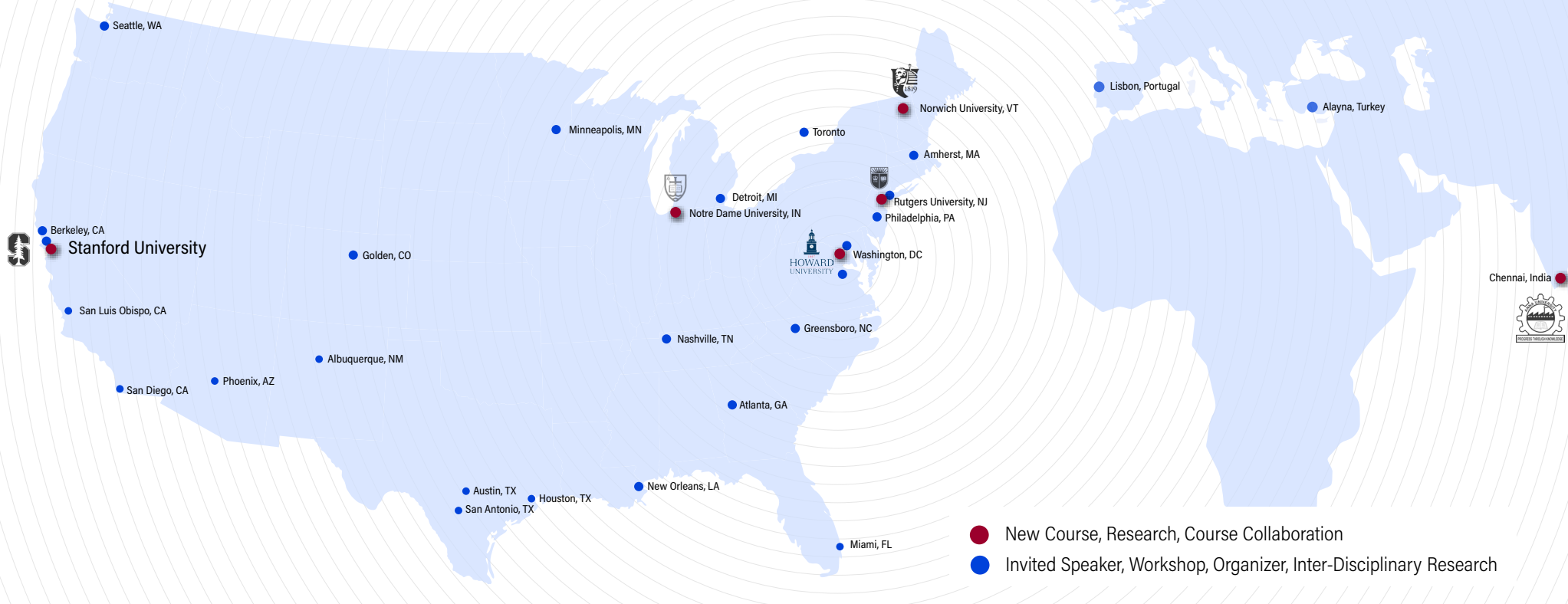
Empowering Students Of Color

Professor Nea Maloo **opens strategic pathways through extraordinary opportunities** for students in Historically Black Colleges and Universities (HBCU) grow their growing leadership in the profession. She offers students a potent combination of educational programs and life experiences that fosters self-awareness, resilience, and leadership while teaching technical and integrated design skills. Beyond proficient teaching and mentoring, Maloo prepares and encourages students' participation with extraordinary success in competitive international programs, such as the **U.S. Department of Energy Solar Decathlon** competition. Under her leadership, Howard University (HU) competed in its first Solar Decathlon, winning the **Director's Award**, and secured the coveted endorsement from the U.S. Department of Energy's Zero Energy Design Designation for the HU Department of Architecture. These experiences fortify the confidence, technical growth, and professional agility of the students under her charge.

Expanding The Profession

Nea Maloo expands the field by engaging with and forging **connections** between organizations that shape the profession. She fosters innovative interdisciplinary problem-solving among multiple entities, including the **AIA, NOMA, NCARB**, and local jurisdictions, to better serve their communities. Her advocacy extends to her students, who join the AIA, participate in AIA HBCU internships, pursue AIA leadership, and attend national conferences at elevated rates. For many years - far in advance of recent social movements - Nea Maloo has **tirelessly advocated equity issues speaking on Anti-Racist Sustainability and Environmental Justice** and pioneering the Diversity, Equity, and Inclusion (DEI) in the Professional Practice Session for the NCARB Licensing Advisor summit. A critical resource for licensing and professional practice advisors, this DEI session is a vital forum for a national conversation on the importance of inclusive architectural education.

2.1 | SIGNIFICANT WORK



NCARB Professional Practice Scholars, 2021 Collaborator

Nea Maloo's work and mentorship impacts the professional lives of current and future generations of students across the country, Professor Nea Maloo's innovations and collaborations in architectural education **drive student success and institutional sustainability** toward a more engaged, relevant and impactful profession.

1000+ Students Impacted

50+ University Collaborations

250+ Inter-Disciplinary Research

50+ Speaking Engagements

\$50K Raised Scholarship for Students

\$100K Research Grant

NEW COURSE MODELS

Professor Nea Maloo reshapes Architectural Education by focusing on her students' **environmental justice and climate** readiness to design healthy, **decarbonized buildings**. She transforms architectural curriculum's and post-secondary education to address the critical skills needed by today's students.



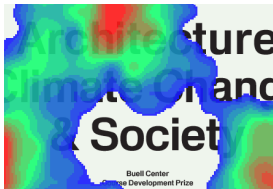
Building Decarbonization Howard University 2020-Present

The course reshapes Architectural Education by focusing on **environmental justice and climate**, preparing her students to design healthy, decarbonized buildings. Nea Maloo transforms architectural curriculums by developing **new approaches and pedagogy** that address the critical skills needed for today's students relative to our built environment and society. (Exhibit 3.1)



Ecology and Architecture Howard University 2019-Present

This course connects Howard University engineering and environmental studies students with architecture students to explore the inextricable link between **Ecology and Architecture**. The collaboration resulted in developing **inter-disciplinary discourses** and research sharing with other university institutions and the "Reconstruct" research taught at the University of Arizona. (Exhibit 3.2)



Environmental Justice + Health + Building Decarbonization Howard University 2021-Present

The course teaches students why and how to place **sustainable building practice** at the center of **environmental health, justice, and social equity**. This course won the prestigious Association of Collegiate Schools of Architecture (ACSA) and the Buell Center of Columbia University **Course Development Prize**. The impact of this recognition bolsters HU's curriculum, interdisciplinary strength, and student engagement. (Exhibit 3.3)



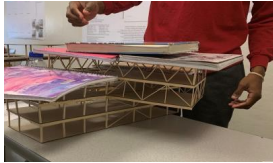
Equitable High Performance Energy Design Howard University 2022- 2023

The course prepares architectural and engineering leaders to design and build the most sustainable buildings. Professor Maloo led the effort for Howard University, the only HBCU to acquire its first-ever **Zero Energy Design Designation (ZEDD)** seal of recognition by the U.S. Department of Energy's (DOE) Office of Energy Efficiency and Renewable Energy (EERE).

"The ecology and architecture course informed a good amount of moves I made when designing the project and I learned a lot through the research and case studies that were implemented in the class. My project was awarded three of five awards given out upon presenting my thesis to the faculty and professionals in the field."

Oseah Niles, Howard Student Graduate

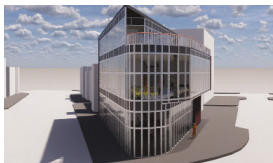
REINVENTING TEACHING CORE COURSES



Professor Maloo teaches **critical skills and foundational courses** in a structured environment that innovatively integrates systems and sustainability for her students. She provides her students with the **spirit of actual hands-on** to address the whole built environment.

Architectural Structures 1 and 2 Howard University 2014 - Present

Nea Maloo has reintegrated the traditional siloed teaching of design studios and lecture courses by **integrating structural design into the studio**. The benefits of this approach show in resulting publications, and one of her students won the **Edward Allen award** from the **Building Technology Educators Society** for integrating building science and technology in design this year. (Exhibit 3.4)



Environmental Systems in Architecture 1 and 2 Howard University 2014 - Present

These courses create **real-world experiences**, teaching the core curriculum course **Environmental Systems** through guest speakers, field trips, and her pioneering way of integrating mechanical, electrical, and plumbing design standards into the student's studio design projects. The impact is that her students successfully perform energy calculations and can prove their sustainable envelope and building design intent.



Studio Design Howard University 2012-2013, 2016-2017

The studio design course is revitalizing with multiple iterations and a transformative dialogue among students. Nea Maloo encourages **inclusiveness with culture, integration of systems, and design** to help the students create from their imaginations. The impact is that the students are confident in their design and cultural expression.



Professional Practice Course Howard University Washington D.C. 2013-Present

The course teaches **critical skills and foundational courses** in a structured environment that innovatively integrates systems and sustainability for her students. Nea Maloo instructs her students in the spirit of the actual **hands-on practice** of architecture with cross-disciplines to address the built environment. (Exhibit 3.6)

“Professor Maloo’s instruction helped me to view architecture through a realistic lens. It was extremely beneficial to be taught by someone who owned and operated an architecture firm. She teaches from her own experiences navigating the architecture profession as a minority woman.”

Lindsey Squirewell, Howard Student Graduate
Master of Urban Planning and Master of Public Administration Candidate

FOSTERING LEADERSHIP AND RESILIENCE



Learning happens in **safe environments**, and mental health awareness is essential in the last few years of pandemic turmoil, especially for people of color. Professor Maloo creates a safe environment for learning the most profound lessons of **self-awareness, confidence, and professional resilience**.

Solar Decathlon Competition Golden, Colorado 2021-Present

For the **first time** in the university's history, Maloo led an interdisciplinary student team from Howard University in the U.S. Department of Energy Solar Decathlon competition. Her team won the **Director's Award** in this international contest for equitable high-performance buildings. In addition, Nea has gained recognition from the Department of Energy, transforming the HBCU into a net-zero designation university. (Exhibit 3.5)

Fostering Innovations Howard University Washington, D.C. 2014-Present

Research on sustainability for third-year students opens their world to the possibilities of discovery. Nea Maloo provides opportunities to investigate the Flint, Michigan water crisis and biophilic effects in classrooms, using the process, methodology, analysis, and conclusion. The students presented at an annual research week and won several awards, including the overall research award. (Exhibit 3.7)

South-East Asia Art and Architecture Howard University 2014-18

Nea Maloo introduced the only non-western course in the Howard University architecture curriculum, exposing the students to the broad culture, raising awareness, and the students explore the intersection of Southeast Asian countries with their rich architecture, culture, and heritage context. The impact creates openness within the students about a more inclusive culture in the built environment.

Mindfulness and Meditation Course Interfaith Howard Divinity School 2020-Present

As a certified teacher and practitioner, Professor Maloo developed the first mindfulness course for faculty, staff, and students in the College of Engineering and Architecture to help students open their minds and reduce stress. This initiative has improved the students' sleep, helped students cope with the stress of bomb threats at HBCU, and reduced their anxiety with less self-judging. The impact is a lifelong skill for the students, faculty, and staff.

“Pursuing this adventure with Professor Maloo was truly a blessing, and your hard work, dedication, and passion was inspiring to work with. Your efforts hardly go unnoticed, the next team is lucky to have you by their side.”

Etana Sesay, Howard Student
Solar Decathlon Participant

INNOVATIVE PEDAGOGY

Professor Maloo creates courses and pedagogies that bring together and institutions **multiple institutional collaborations across disciplines**. Her integrative approach transforms architectural teaching and learning to shape minds prepared to address the complex and extensive challenges of the built environment.



Managing sustainable Design and Decarbonization Howard University + Stanford University 2022- 2023
This course initiated an institutional network and collaboration between Howard University and Stanford University to **create future leaders in the profession**. Professor Maloo for a **new cross-disciplinary effort** between the two universities to teach life cycle cost analysis, project management, professional practice, and design team leadership learning and empowering them to be leaders in the profession. (Exhibit 3.1)



Sustainability Travel to India Howard University + Anna University Chennai 2023
This course collaborates with her alma mater, school of architecture and planning design students in Chennai, India with design charettes. Professor Nea Maloo invites the students to **collaborate and learn globally level**, developing essential skills in the worldwide market and utilizing the common elements of architecture as a discussion at a multi-cultural level.



Functional Architectural Ornaments Howard University + Norwich University 2023
This innovative course is **cross-collaborating** with a **Norwich University** professor, teaching students about **biophilic ornaments** and their effects on design and health. Professor Maloo created a **hands-on** teaching module incorporating, iteration, and building architectural ornament to complement the joint research into biophilic architecture.



Integrated Kitchen Management Howard University + Rutgers University 2023
The course is on topical findings of a 3-year research grant, "Integrated Kitchen Management: Fundamental, Implementation, and Practice-based Translational Research to Improve Air Quality in Multi-site Affordable Housing." The impact is **research-informed** teaching, **cross-institutional** knowledge, and networking for university students.

"I'm very excited about our collaboration to inspire next generation AEC (Architects, Engineers and Contractors) leaders to create an inclusive and high-performing built environment"

Martin Fisher, Professor
Civil and Environmental Engineering, Stanford University

RESEARCH PARTNERSHIPS

Professor Nea Maloo collaborates with several researchers and institutions, strengthening **academic research partnerships** to foster discourse and knowledge sharing. Nea Maloo molds her teaching of architecture in a way that **engages art, science, social sciences**, and, most importantly, people.



Integrating Health In Architectural Curriculum

Role: Principal Investigator **Collaborators:** Healthy Building Network \$23,000, 2021-22

Plan and implement student-designed research projects that address building materials' human and environmental health impacts, especially in the context of affordable housing design and environmental justice implications of material selections.



Water Conservation & Sustainability Education

Role: Principal Investigator **Collaborators:** Water Resources Research Institute (WRRI) \$30,000 2019

This project aims to develop strategies for water conservation and sustainability at Howard University. It promotes students' environmentally appropriate water consumption behavior and provides undergraduate research and training opportunities.



Infrastructure Safety Monitoring with Artificial Intelligence

Role: Team member, National Science Foundation Convergence accelerator

Collaborators: Howard University, Southern Illinois University, Army Core of Engineers \$750,000, 2020-21

Developing Artificial Intelligence (AI)-driven Infrastructure Safety Monitoring platform to accurately judge infrastructure health and inform maintenance, repair, and replacement decisions. It will provide accurate and timely information about an infrastructure's health for decision-makers to prioritize decisions.



Industry- Research Inclusion in STEM Education (I-RISE)

Role: Advisor for Architecture Students, Department of Education

Collaborators: Civil Engineering, Physics, Biology, Math Departments, Howard University \$1,000,000, 2019-2021

The I-RISE program extends opportunities for paid research experience, networking with industry partners, and inroads to professional work to underrepresented first- and second-year students in STEM disciplines. It focuses on students with GPAs of 2.00-3.00 or non-scholarship at the first- and second-year student levels, stimulating scientific interest through participation in real-world, hands-on research projects in the early years of STEM education to boost retention and graduation rates.

“Professor Nea Maloo has actively sought to create research experience and inroads to professional work and internships for her students in Architecture through collaboration with the engineering colleagues in sponsored research.”

Mohsen Mosleh, Ph.D., Professor
Director HU I-RISE

INVITED SCHOLARSHIPS



Professor Maloo's research, **collaborative leadership, and publications** provide tools for architectural educators nationally and internationally toolkits for the built environment. In addition, she connects research to them to more effective ways of addressing **sustainability, health, and equity**.

Health in Building Roundtable National Institute of Health, 2018-Present

She was the Scholar to present her research on positive outcomes for **Biophilic design for opioid addiction**. She has collaborated with doctors, managers, and researchers to have meaningful discussions on how to have actionable research reach the built environment. Maloo has expanded to organize the symposium in 2022 and will moderate equity, diversity, and inclusion as policy.



Center for Active Design (CfAD) Research Group Advisor, Fitwell Active Design

As a member of CfAD Research Advisory, Maloo contributes to leveraging research as a tool and driving the **healthy building movement**. The Fitwel Standard is currently being implemented across more than 2,700 buildings, reaching more than 1,450,000 individuals. The research contribution has led to a new Fitwell platform, which offers just that: a viable entity-wide approach for consistently tracking and integrating people-centric metrics to quantify the "S" in ESG (Environmental, Social, and Governance).



Green Reconstruction Buell Center, Curricular Workshop 2020

Professor Nea Maloo was among the twenty-six nationally selected professors for **Buell Center curricular workshop**. With their dialogue and research, Maloo contributed to the new workshop's content and production, which led to the production of the book **Green Reconstruction, a Curricular Toolkit for the Built Environment**. As a result, more than one hundred university professors now reference and use the toolkit to create change in teaching the next generation to address equity and climate change. (Exhibit 3.3)



International Networks of Networks for Well National Science Foundation Research

Nea Maloo was among the international invited researchers to contribute to the National Science Foundation Research on well-being building. As a result, the foundation leveraged and achieved resources from 33 existing networks and partners in North America, Africa, Europe, Australia, and Asia. In addition, Nea Maloo partnered with other participants to develop and implement community standards, including data collection from buildings in other countries.

"Nea as a Scholar presented her research on biophilia and decarbonization flawlessly, collaborated with other Scholars and environmental professionals within HIBR and contributed to the conference."

Michelle L. Coley, Management Analyst
Former Lead for the Health in Buildings Roundtable (HiBR)

NEA MALOO'S COLLABORATORS



John Onyango, Ph.D.
Associate Professor
School of Architecture University
of Notre Dame

“During our interactions, I noticed how she went beyond call of duty as a reviewer. Professor Maloo was very fair, and treated students with respect in giving critical feedback that would enhance the students’ learning.”



Susie Teal, AIA, LEED AP
Partner
Cookfox Architects

“In her class, “Ecology and Architecture,” Professor Maloo has honed in on a topic that is relevant and critical to the field of architecture right now. The intersection of the environment and ecology with the design of spaces that promote health, wellness, and sustainability is at the forefront of the work that we do and our clients request.”



Jeffrey Luker, AIA
Principal
Quinn Evans

“In her professional practice class, Nea assembles students, academic peers, and practicing professionals. Ideas swirl, and together we enjoy a collaborative synergy. Her class inspires confidence in our collective ability to create a net-positive future.”



Ronald Skyles AIA
Architectural Design Manager
Prince George’s County Public Schools

“During our time together, Nea Maloo proved to be driven for her dedication to educating young architects and passionate about environmentally friendly green architectural expertise. Her degree and license in structural engineering has been a huge asset that led to advising me on PGCPS and private projects.”



Roberto Valle Kinloch
HomeFree Manager
Healthy Building Network

“Professor Maloo’s knowledge and expertise about material health and intersection with environmental justice issues proved critical to enriching the students’ educational experience. Results from this collaboration will help develop a healthier materials curriculum for architecture students at HU.”



Jennifer Senick, PhD
Executive Director
Rutgers Center for Green Buildin

“What I really value about Nea is how she exhibits not only knowledge, as would be expected of an accomplished academic/practitioner, but also empathy and patience, which are more rare qualities in educators”

PROFESSIONAL LEADERSHIP

Professor Nea Maloo has better **integrated the academy into the profession** by collaborating with and contributing to diverse allied organizations and governmental agencies. Nea Maloo has spoken at over a hundred high schools, middle schools, and scouting troops. Among other **governmental agency collaborations**, she works on fair housing for the State of MD Commission of Real Estate.



American Institute of Architects (AIA)

- 2019-Present AIA, Emeritus Higher Education Advisory group
- 2020-2022 Co-chair, Committee in Education AIADC
- 2020-2022 Member, Disaster Planning Committee, AIADC Trained Evaluator
- 2020 Disaster Safety Assessment, AIA
- 2014-Present Faculty Mentor, AIAS, Howard University
- 2018-2019 Elected Representative
- 2018 Faculty Advisor
- 2017 Faculty Mentor
- 2000 Leadership and Mentoring



National Council of Registration Board (NCARB)

- 2022-2023 Appointed Volunteer Experience Committee, Educator Position, NCARB
- 2020-2022 Appointed Volunteer Test Prep Review Committee, Project Planning and Documentation, NCARB Appointed Volunteer, Architects Registration Exam 5.0 Exam item development sub-Committee member
- 2021 Developed and co-moderator, pre-summit DEI, Architect Licensing Advisor
Developed and co-moderator, professional practice professors, Architect Licensing Advisor
- 2018-2020 Project Development and Documentation, NCARB

“Maloo’s passionate teaching style, strong leadership skills, knowledge, willingness to help and inspirational methods were consistently praised. Among other things, she participated in several events and represented the college and students positively in both internal and external settings. ”

Elvira Michel Manzano, UDC Student
Project Manager, Smithsonian Institution



- 2022-2023 President- Elect, Building Technology Educator Society, BTES
- 2021-2022 Elected, Board of Director, Building Technology Educator Society, BTES
- 2018-2019 Appointed, Board of National NOMA, HBCU Liaison, NOMA
- 2021-2026 Governor Appointed, Commissioner, Maryland Board of Real Estate

Community Leadership

- 2016 Girls Scout Parent Leader, Troop 456, MD
- 2015-Present Stroke and Turn Official, USA swimming, Potomac chapter
- 2012-2014 Trainer and Den Leader, Cub Scouts Montgomery County, MD
- 2005-2015 Speaker, Career Fair, Elementary, Middle and High School, MD
- 2005-Present Counselor, Boys Scout Merit Badge, Sustainability, Architecture and Energy
- 2004 Pro-bono Design of Children's Reading Section, Wheaton Libraries
- 1998-2000 Reading Buddies, Summer reading program, Wheaton Library

Academic Leadership

- 2022 Assessment of Academic, Reports, and General Education Artifacts, Howard University
- 2022 Mindfulness Koru teacher, Student services and Divinity school, Howard University
- 2022 Summer Academy Scholar, Howard University (HU)
- 2020 HU-Teach Reviewer, Center for Teaching and Excellence, Howard University
- 2020-Present Chair, Howard Architecture Technology Department
- 2021 Elected College Retention Committee, College of Engineering and Architecture, HU
- 2018-2019 Judge, Howard Research Month
- 2017-2018 Led Howard University, National Architecture Accrediting board (8 years full accreditation)
- 2014 Women in Architecture Panel, Howard University, DC

Invited Jury

- 2022 ACSA-111, San Diego, Annual meeting
- 2021 ACSA-110, San Diego, Fall meeting
- 2021 ACSA-109, San Diego, Fall meeting
- 2021 Building Technology Educator Society Conference
- 2021 Greenbuild Conference Papers
- 2019 Intersection's Symposium (ACSA + AIA)- AIA National Conference

PROFESSIONAL PRACTICE

Nea Maloo tests and confirms the **value of the integrative concepts** she teaches through practice. Her firm, Showcase Architects, explores modern architecture through a spatial, material, and contextual approach, **pushing design to use the land wisely, respect the place’s culture, and be more carbon positive.**



Eco-Estate, Silver Spring, Maryland 2007-Present

She is developing a community of homes built using sustainable, decarbonized methods in a suburban county of Maryland. The dense design development **uses less than eight percent of the land** to ensure previous conditions in the planned development. The result will be a **net zero community** with community recycling and the reuse of waste to create organic gardening principles. When completed will be one of the leading net-zero carbon communities in the state.



Single Family Residence, Silver Spring, Maryland 2011

Nea Maloo pioneered using structurally integrated panel design with **passive heat strategies, integrating Geothermal, low-energy fixtures, and daylighting** in Montgomery County, Maryland. As a result, it became one of the **first energy-certified homes**. In addition, she partnered with industry manufacturers such as Kohler, Dow chemicals, Sherwin Williams, Nichia, and Velux, who contributed to the design and building of the single-family residence.



Move Permit and Accessory Dwelling, Silver Spring, Maryland 2008

The challenge was to design a new modular home on a property with an existing non-historic 1940 home. The option available in the permit process was to raze the current house. She collaborated with the permit authority to add the possibility of **moving the home** rather than demolishing it and making it accessory dwelling. The zoning change initiated, allowing a move option in the permitting process, has **saved 1000 plus projects** in the last decade.



Dakshinachitra, Living cultural museum Chennai, India 1996

As a young professional, Nea Maloo was instrumental in establishing an institution to celebrate the myriad cultures of Southern India. Nea Maloo documented the homes of a south Indian village street to repurpose and value the hidden wealth of traditions, sustainability, and architecture. Today the museum has grown to 10 acres and caters to 30,000 people annually. People are learning the craft and heritage and preserving architecture for generations.

“On first glance, the house is typical, including products that many builders are already using, such as Energy Star appliances, high-efficiency windows, and multi-zone heating and cooling system. But behind the walls, one finds a number of nonstandard technologies that Maloo hopes will gain traction, such as a green roof.”

Builder.com, Architect begins building one of metro washington’s first green subdivisions

2.1 | SIGNIFICANT WORK



Isabella Adekoya
Seattle

Dezja T. Sabree
California

Crystein Esters
Missouri

Jamila Jenkins
Texas



Justina Starrad
Washington, D.C.

Kyle A. Martin
Jamaica

Khadija B. Callender
Trinidad and Tobago



Chalya Nimyel
Nigeria

Oluwatamilore Akarakiri
Great Britain



Ghaleya AlDhafin
Kuwait



Huy Bui
Vietnam

“Our community of more than 11,000 undergraduate, graduate and professional students represents 53 states and territories, and 53 nations.”

Howard University Website

○ Places of students origin in the College of Engineering and Architecture HU

132 Accredited schools of Architecture

7 HCBU's accredited schools of Architecture

- Florida A&M University
- Hampton University
- Howard University
- Morgan State University
- Prairie View A&M University
- Tuskegee University
- University of the District of Columbia

LEADERSHIP IN HBCU

Professor Maloo's commitment to strengthening architectural education at leading HCBU, Howard University, is part of a much-needed transformation of our profession. HBCU enrollment is the most prominent pipeline for fostering successful new Black architects. According to an ACSA study, one out of every three Black architecture students attends an HBCU. Maloo's leadership for the last decade at HU empowers her student's confidence and professional resilience.

Nea Maloo empowers the profession globally as a role model to diverse students

Maloo teaches students of the African Diaspora and students of color from all over the world, including the United States, Africa, Europe, Nepal, United Arab, and Southeast Asia. Her contributions include successfully graduating students, and her global students return to contribute to their countries.

HCBUs

HCBUs make up only **5%** of the NAAB-accredited schools but **enroll 32%** of the Black student population in accredited and pre-professional programs **achieving a higher graduation rate**. In addition to her teaching, Maloo wins in getting the resources for the students' numbers of diverse emerging professionals entering the profession and pursuing the path of licensure.



Kelsi Drew Howard
2018
Designer at Kelsi Drew Design

“Her engaging encouraged the students to connect on an intellectual level with each other as well as with the industry professionals out in the world”



Dean Bailey
2022
Walt Disney Imagineering Show Set Design Intern

“Learning to pay attention to the way buildings are constructed, and the sustainable practices surrounding that process has adjusted many of my priorities and practices”



Joshua Ajayi
2022
Designer at Payette

“I had acquired enough information from the class to start research and prepare a thesis on other Net-Zero areas in a building including Net-Zero Energy, Water and Waste”



Arthur Logan
2016
Jr. Architect of the Capitol

“Professor Maloo instilled in me that architecture was hard work, and to become an architect, I must live and breathe the culture”



Natasha Graves, AIA
2018
Preconstruction Manager
John Moriarty & Associates

“Professor Maloo has an extreme dedication to her university community always advocating for the advancement of resources and opportunities for her students”



Isabella Adekoya
2018
Former President of AIAS

“She takes an extra step to augment student understanding of the architecture profession with field trips, inviting guest speakers, and challenging students to participate in extracurricular work and competitions”



Personal Awards

- 2022 **Environmental Justice(EJ) + Health + Decarbonization** Course Development Prize in Architecture, Climate Change, and Society, ACSA + Buell center, \$10,000 Prize to develop a course at Howard University.
- 2018 **Featured Teacher Award**, Center for Excellence in Teaching, Learning, and Assessment, Howard University
Teach finalists award, Conversion of Course to Hybrid Teaching, Howard University
- 1998 **Gold Medalist**, for Academic Excellence / Project Appraisal in Master's thesis, School of Architecture and Planning, Chennai, India
- 1994 **Nasa sponsored competition for design**, Student winning team, India
- 1993 **Formica interior design corporate competition**, Student winning team, India
Louis I. Kahn Trophy for national level competition, Student winning team, India

Other Awards

- 2022 **Lumen circles Fellowship** Howard University "Evidence based teaching"
Department of Energy Zero, Energy Design Designation for Howard University
Stem Educator Scholar, Sustainability Across Curriculum Workshop, Santa Clara University
- 2021 **Scholar in Professional Practice Program**, NCARB, San Luis Obispo, California
- 2019 **Women in Leadership Scholar**, Sho-Ping Chin Women's Leadership Summit Grant, Minneapolis
Health in Buildings Roundtable (HiBR), Invited Scholar, National Institute of Health, Washington, D.C.
- 2018 **Director's award**, U.S, Department of Energy, Solar Decathlon Design Challenge, Faculty mentor, Colorado
- 2017 **Student Research Award**, Faculty Mentor, Howard University
Winner of the Solar Roof Table Competition, Faculty Mentor, Washington, DC.



NCARB Scholar in Professional Practice, 2021

"The Howard University team brought the most urbanistically powerful submittal to the Office Building category. They integrated forward looking building technologies into a successful design which literally and figuratively joined the design and engineering departments. That integration is essential in the practice of high-performance building design."

Holly Lennihan, R.A. LEED AP, CannonDesign
Juror Solar Decathlon

SPEAKING ENGAGEMENTS

Nea Maloo is a speaker internationally, nationally, and locally on her research, **environmental justice, and teaching methods**. The impact of more than a decade of speaking and lecturing has had a profound positive impact on the profession, students, and allied stakeholders.



Environmental Justice

- 2022 **Environmental justice (EJ) + Health + Decarbonization**
Association of Collegiate Schools of Architecture (ACSA)
Leading climate justice through integrating decarbonization strategies into the curriculum
Organizer and Moderator, ACSA
Environmental justice with building decarbonization Speaker, climate-teach in, Howard University
- 2021 **Anti-racist sustainability**, Virtual panelist, Greenbuild International Conference, San Diego, California
Climate and equity, Panel moderator, Building Technology Educator Society, Auburn University
Pre-summit pro-practice roundtable focus EDI, Organizer and Moderator, National Council of Architecture
Registration Board, University of New Mexico
Embrace asian unity in diversity, Our Forum, Panelist, AIA/DC
Environmental justice panel, Panelist, Climate change panel, HUC3, Washington, D.C.

Decarbonization

- 2022 **Building decarbonization education for the next generation**, Panelist, Global Conference on Sustainability in Higher Education, Association for the Advancement of Sustainability in Higher Education
Decarbonization Teaching Techniques, Speaker, Building Decarbonization Learning Accelerator
Building Decarbonization, Speaker, Spring lecture, University of District of Columbia
- 2021 **Building Decarbonization**, Panelist, Lawrence Berkley National Laboratory
Building Decarbonization, Panelist, Center for Integrated Facility Engineering, Stanford University
Building Decarbonization, Panelist, National Institute of Health, Healthy Building Roundtable

Health and Wellness

- 2022 **Mindful meditation**, Howard University, Ralph J. Bunche Center for International Affairs
- 2019 **Biophilic Architecture- for better outcomes**, Education and Outreach, Howard Research Week
Nexus Between Building, Health and Better Education, Architectural Research Center, Toronto, Canada
- 2018 **Healing of patients with Nature's positivity and Social distraction**, NIH Health in Buildings Roundtable



University of
Massachusetts
Amherst



AIA | DC

AIA Virginia

Inter-Disciplinary Research

- 2022 **Inter-Disciplinary Research and Built Form**, Restruct, University of Arizona
- Making Connections Research to Practice**, Moderator, Health in Building Roundtable, Integrated Sciences
- Open and Nature Guided, Healthy Buildings**, Howard University, Summer Academy, Washington, D.C.
- 2020 **Strategic Methods of Integrating Building Science and Design?** Co-Presenter, Annual meeting 108, Association of Collegiate Schools of Architecture, San Diego, California
- 2019 **Analysis of impact of window design detail on energy demand profile of typical hotel**, Co-Presenter, International Sustainable Buildings Symposium (ISBS2019), Texas, University of Notre Dame
- 2019 **Resilience in tropical construction to natural disasters, Haiti**, Building Technology, Educators Society Conference, University of Massachusetts, Amherst, Massachusetts
- 2018 **Analysis Of Impact Of Window Design Detail On Energy Demand Profile Of Typical Hotel Room**, Co-Presenter, International Congress on Engineering and Architecture, Alayna, Turkey

Expanding Profession

- 2022 **Evolving Educational Landscapes Improve Outcomes and Strengthen Communities**, Panelist
- National Organization of Minority Architects NOMA**, Nashville, Tennessee
- 2021 **Regeneration: How Covid19 Is Redefining “Classrooms”**, Panelist, NOMA
- Pro-Practices Session**, Organizer And Moderator, Licensing Advisor Summit, University Of New Mexico
- 2020 **Virtual Ethics**, Panelist, Ncarb Pro-Practice Roundtable
- 2018 **Architect’s Roadmap For Being Developer**, Co-Presenter, Architecture Exchange East, Richmond, Virginia
- 2018 **Sustainability from university to students**, Panelist, Architecture Exchange East, Virginia
- 2018 **Resilient Women – The case of howard university graduates of architecture and planning**, Design DC, AIA/DC, National Conference, Washington, D.C.
- 2015 **Women In Architecture**, Panelist, Howard University, Washington, D.C.
- 2017 **Shades of green – Analysis of the various building certifications**, NOMA, Houston, Texas
- 2016 **Riding The Vortex**, Panelist, Architecture Exchange East, National Conference, Richmond, Virginia
- 2014 **Riding The Vortex**, Panelist, Architecture Exchange East, National Conference, Philadelphia, Pennsylvania
- 2014 **Digital Architecture**, NOMA Conference, Philadelphia
- 2009 **Green Economics**, AIA DC, Design DC, Washington, D.C.

“Of all the intelligent architects I’ve worked with, Nea Maloo is among the most imaginative innovating architects and teachers I’ve worked with.”

Ronald Skyles A.I.A., NCARB
PGCPS, Department of Capital Programs



Analysis of Impact of Window Design Detail on Energy Demand Profile Of Typical Hotel, 4th International Sustainable Buildings, Co-authored, Chapter 54



"Howard University program focuses on reducing buildings' carbon footprint"



Authored

- 2019 **Strategic methods of Integrating Building Science and Design**" 108th ACSA Annual Meeting, Co-authored
- Analysis of Impact of Window Design Detail on Energy Demand Profile Of Typical Hotel**, 4th International Sustainable Buildings, Co-authored, Chapter 54
- 2018 **Healing of Patients with Nature's Positivity and Social Distraction** NIH, Health in Buildings Roundtable

Media

- 2022 **Howard University program focuses on reducing buildings' carbon footprint**, CBS Interview <https://www.cbsnews.com/video/reducing-buildings-carbon-footprint-howard-university-students/>
- DOE Announces First Cohort of Post-Secondary Programs to Receive New Zero Energy Design Designation**, Department of Energy, <https://content.govdelivery.com/accounts/USEERE/bulletins/32f5f06>
- AIA's HBCU Internship program: Future architects help design AIA's future**
- Veranda Sky**, Howard University Architecture Lecturer Nea Receives Prestigious Course Development Award
- Solar Decathlon Design Competition**, Department of Energy, National Renewable Energy Laboratory
- College of Engineering and Architecture website, Appointed as commissioner in Real Estate
- Changemakers in Architecture Department**, Howard DIG magazine
- Environmental Justice**, Bison Beat, Howard University
- ACSA**, announcement Course Prize Development Award
- 2021 **National Council of Architectural Registration Boards**, NCARB Scholars
- 2021 College of Engineering and Architecture Newsletter
- 2020 **Green Reconstruction Curricular Workshop**, Buell Center Power, Columbia University
- 2019 **Conference Seminars List**, National Organization of Minority Architects, Louisiana
- 2018 College of Engineering and architecture, Alumni letter
- 2014 Dupont Circle Current, Winners solar competition, Howard Newsletter, Solar Table winners
- 2009 **Current Newspaper**, http://issuu.com/currentnewspapers/docs/dp_03-05-2014, pg. 21
- Maryland Public Television**, Money and Business, June 2009 <http://video.mpt.tv/video/1527942969>
- Builder online.com**, Architect Begins Building One of Metro Washington's First Green Subdivisions
- Eco-Estate in Silver Spring**, Maryland, First Green Subdivision <https://www.builderonline.com/>
- Green building advisor.com**, "Nurturing Eco-Development in the D.C Area"
- Contractor Magazine** <https://www.contractormag.com/green-contracting>
- 1994 **Architectural/Design Magazine**, National Level Award Winning Traditional Architecture Project

BISON BEAT



Transforming Architectural Education

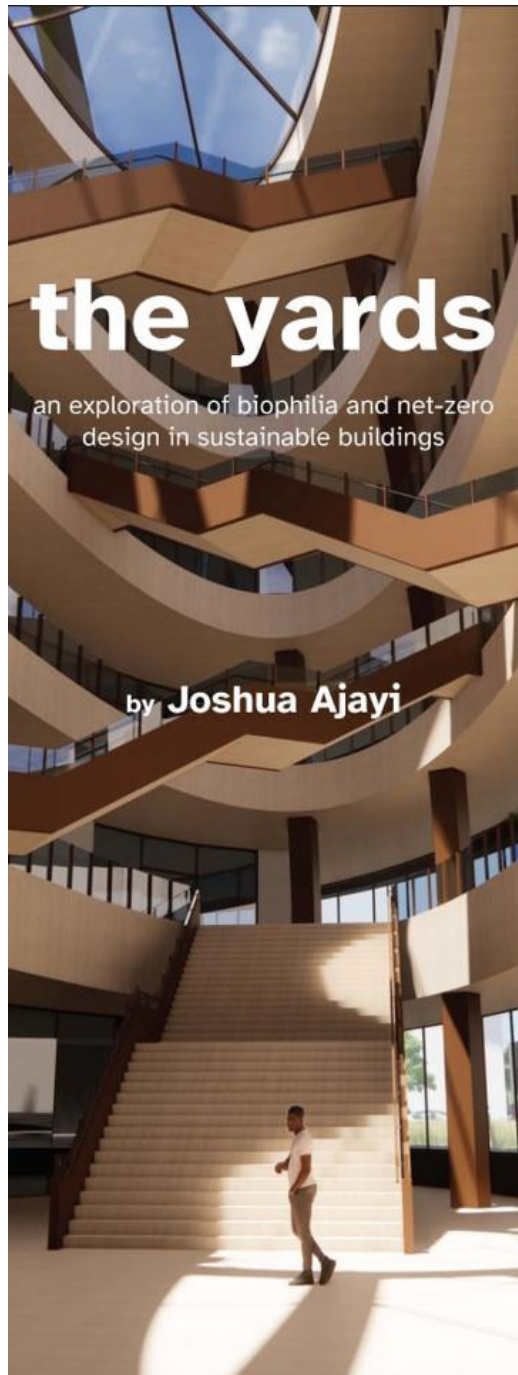
- 3.1 TEACHING DECARBONIZATION GLOBALLY
Building Decarbonization, Theory to Practice
- 3.2 MULTI-DISCIPLINARY EDUCATION
Ecology and Architecture
- 3.3 ENVIRONMENTAL JUSTICE ADVOCATE
EJ + Health + Decarbonization
- 3.4 INTEGRATING BUILDING SCIENCES
Architectural Structures & Environmental Systems

Empowering Students of Color

- 3.5 BREAKING BARRIERS
U.S. Department of Energy, Solar Decathlon
- 3.6 LEADERSHIP SKILLS
Professional Practice
- 3.7 FOSTERING INNOVATIONS
Research Week

Expanding the Profession

- 3.8 ADVANCING THE PROFESSION
American Institute of Architects
- 3.9 DIVERSITY, EQUITY, AND INCLUSION
National Council Of Architecture Registration Board
- 3.10 DESIGN AND DEVELOPMENT
Single Family Residence and Accessory Dwelling



BUILDING DECARBONIZATION, THEORY TO PRACTICE

Howard University and Stanford University Washington D.C 2020 - Present

Role: Creator and Faculty Instructor

CHALLENGE

Buildings are responsible for almost 40 percent of U.S. carbon dioxide emissions. Therefore, the design of future buildings is imperative to address embodied and operational carbon. However, current architectural curriculum courses do not address carbon calculations or design methods, which will have a more sustainable environmental impact.

RESOLUTION

Nea Maloo led the development of the architectural curriculum to create a new course in collaboration with industry partners and **Stanford University**. "**Building Decarbonization - Theory to practice**" is unique in the architecture curriculum in the United States. Her creation and teaching were instrumental in establishing the model for other institutions to create courses on Decarbonization. The content used the AIA Headquarters as the problem statement to apply decarbonization skills. Professor Maloo has **increased the connectivity to AIA** and the profession through field trips, interactions with national AIA, and guest speakers. As a result, students found a practical, tangible way to apply **Sustainability and Decarbonization**. In addition, this course was a catalyst for the first global symposium by Stanford's Building Decarbonization Learning Accelerator, where she shared her experience teaching collaboratively.

IMPACT

- Catalyst to an establishment in Stanford Building Decarbonization Learning Accelerator (BDLA)
- Creating new knowledge and course model in the architectural curriculum and sharing it globally
- Teaching decarbonization to the professors of different universities and allied fields
- New course with Howard University and Stanford University
- 50 % Of HBCU's a with AEC program + 600 Downloads of BDLA materials
- 240 Academic downloads and 460 private sector
- Nea Maloo was a speaker at the first building decarbonization teaching symposium, where speakers included the white house climate team.
- Nea Maloo allowed her student to be with her at the global symposium.

Declaration of Responsibility

I have personal knowledge of the nominee's responsibility for the exhibit listed above.
That responsibility included primarily responsible collaborator for the course.

Martin Fischer, PE




Director, Center for Integrated Facility Engineering (CIFE)



This course, co-taught by [Howard University](#) and [Stanford University](#) lecturers, gives the students a hands-on introduction to the current priority in sustainable buildings - Building Decarbonization.



BDLA First year's Accomplishments

-  Facilitated the first joint class between Howard and Stanford Universities
-  **+ 350** Users
40% Academic sector, 60% Private sector
-  **+ 600** Downloads of teaching materials

Users include



3.1 | TEACHING DECARBONIZATION GLOBALLY

STUDENTS AWARDS

Nea Maloo 's student, Joshua Ajayi, won all five senior year awards for his project "The Yards"

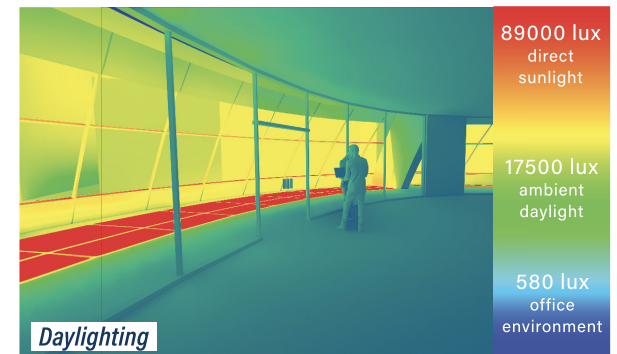
- Architecture Research Council Consortium / King Student Medal
- Henry Adams Award Medal /AIA
- Gold Prize in Design
- Best in Thesis
- Edward Allen Award: Technical Competence

SELECT SPEAKING ENGAGEMENTS

- 2022 Building Decarbonization Education for the Next Generation
Global Conference on Sustainability in Higher Education, Association for the Advancement of Sustainability in Higher Education
- 2022 Decarbonization Teaching Techniques Symposium -Stanford Building
Decarbonization Learning Accelerator
- 2021 Building Decarbonization
Lawrence Berkley National Laboratory and Stanford University Center for Integrated Facility Engineering
- 2021 Building Decarbonization
National Institute of Health, Health in Building Roundtable

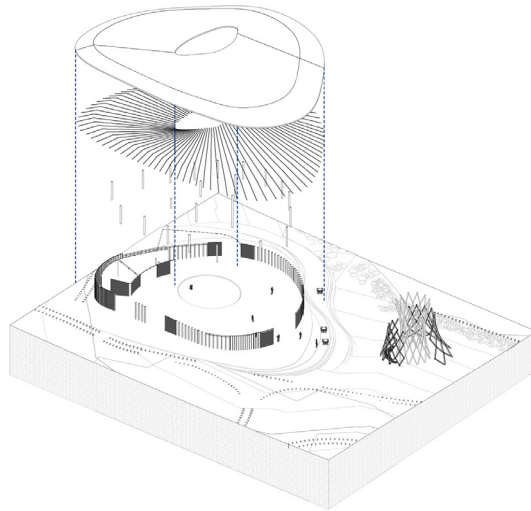
"It has been the most informative course I have taken at Howard University. Before taking the class, I had a very limited hands-on experience on building analysis and sustainability strategies"

Joshua Ajayi, Graduated Howard Student Designer at Payette





"Guyanese Retreat" by Oseah Niles



Together:ness Hub (C) and Water Tower

ECOLOGY AND ARCHITECTURE

Howard University Washington D.C 2020 - Present

Role: Creator and Faculty Instructor

CHALLENGE

Empower future planners and designers by grounding their understanding of the built environment within the larger context of larger environmental systems including its interrelationships with regional and local ecologies.

RESOLUTION

Professor Maloo developed the only interdisciplinary course connecting architecture, civil engineering, and environmental studies departments. Students explore the intersection of ecology and architecture. The students learn new vocabulary, listening, and collaborating skills and apply them in design charrettes to understand nature's complex nature and the built environment. In addition, the collaboration and exposure of a built environment to non- architects have students in other fields leading to more sustainability in allied professions. University of Arizona, "Reconstruct" Built Environment Research, invited her to speak about her interdisciplinary approach to teaching and research, which was attended by 400 plus students.

Nea Maloo's research on positive outcomes of biophilic has created a strong partnership with the health in buildings Roundtable, National Institute of Health. In addition, the impact has created a new partnership with Norwich university to create biophilic ornaments.

IMPACT

- Creating connections between multiple disciplines and departments at Howard University and beyond
- Presenting at the "Health in Building Roundtable", creating bridges between research and practice.
- Students of all engineering, environmental studies, and architectural disciplines cross-pollinate the design process.
- Sharing the teaching models to other institutions, "Reconstruct" -presentation at Arizona State University.
- Establishing new collaboration with university of Arizona.
- Developing new collaboration with Norwich University to teach ,design and build Functional Biophilic ornaments for learning and research.

Declaration of Responsibility

I have personal knowledge of the nominee's responsibility for the exhibit listed above.

That responsibility included primarily responsible for an administrative role.

Janelle M. Burke, Ph.D.

Associate Professor, and Director of Interdisciplinary Environmental Studies Program

3.2 | MULTI-DISCIPLINARY EDUCATION

STUDENTS AWARDS

Nea Maloo 's student, Oseah Niles, won three student awards for his thesis project "The Yards"

- Henry Adams Award Medal /AIA
- Gold Prize in Design
- Best in Thesis

SELECT PRESENTATIONS

- 2022** Restruct
Inter-disciplinary research and built form
Arizona State University
- 2020** Open and Nature Guided
Healthy Buildings, Howard University
Summer Academy, Washington DC
- 2019** Biophilic Architecture For Better Outcomes
Education and Outreach
Howard Research Week
- 2018** Healing Of Patients With Nature's Positivity
And Social Distraction
National Institute of Health
Health in Buildings Roundtable (HiBR)



Restruct
Built Environment Research



HOWARD
UNIVERSITY



"Professor Maloo offers some of the most innovative and multi- disciplinary courses that are offered for our majors. There are few higher-level courses that bring together students from across disciplines"

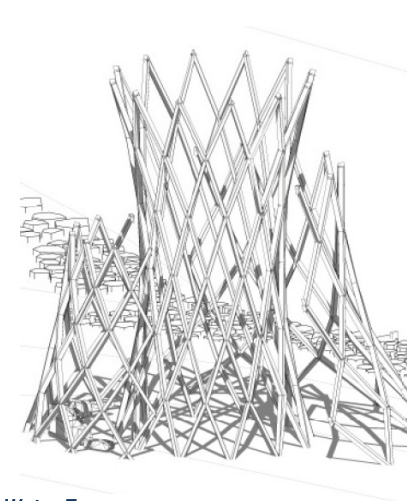
Janelle M. Burke, Ph.D., Associate Professor
Director, Interdisciplinary Environmental Studies



"Guyanese Retreat", Water Tower



C. Togetherness Hub

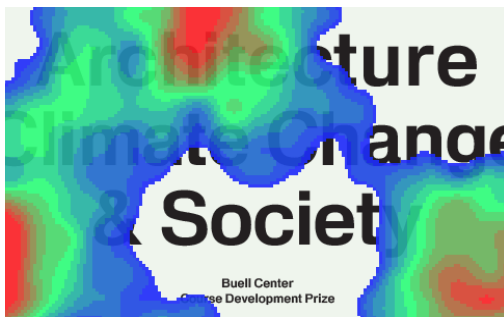


Water Tower

3.3 | ENVIRONMENTAL JUSTICE ADVOCATE



2021: "Anti-racist Sustainability"



Course Development Prize

"In her position on the board and as President-Elect Professor Maloo has worked to steer the direction of the seminars and conference themes to include aspects of climate justice"

Terri Meyer Boake
Professor, University of Waterloo

ENVIRONMENTAL JUSTICE + HEALTH + DECARBONIZATION

Howard University Washington, D.C. 2020 - Present

Role: Creator and Faculty Instructor

CHALLENGE

Create courses and a pathway for advocacy of environmental justice to provide the skills needed for young professionals to contribute solutions to our global carbon challenges.

RESOLUTION

As an advocate for Environmental Justice, Professor Nea Maloo developed a new architectural course curriculum. Her course "Building Decarbonization" serves as a foundational approach to "Environmental Justice (EJ) + Health + Decarbonization"- the new interdisciplinary course- designed by Maloo for Howard University, aims to put sustainable building practice at the center of environmental health, justice, and social equity.

Professor Maloo was one of the twenty-six teachers from professional schools focusing on the built environment invited to the Green Reconstruction curricular workshop at the Buell Center. Her participation and input were crucial to the development of the project of Buell center's new book green reconstruction - A curricular toolkit for the built environment. The book is available for everyone and has already influenced the approach to teaching the future generation.

IMPACT

- Nea Maloo was announced as the winner of the 2022 Association of Collegiate Schools of Architecture Course Development Prize issued in collaboration with Columbia University's Temple Hoyne Buell Center for the Study of American Architecture. The competitive prize recognizes exemplary course proposals on the designated theme of Architecture, Climate Change, and Society.
- Nea Maloo's research strengthens the connections between education in architecture and urbanism and demonstrates how their collaboration can creatively and critically address the difficulties of climate change.
- Nea Maloo presented her course at the national ACSA 110 symposium, with over 500 participants, including professors and administrators from universities across the United States.

Declaration of Responsibility

I have personal knowledge of the nominee's responsibility for the exhibit listed above. Which included primary responsibility for supervisor role and administrator.

Bradford C. Grant, RA
Professor, Interim Chair

3.3 | ENVIRONMENTAL JUSTICE ADVOCATE

PUBLICATIONS

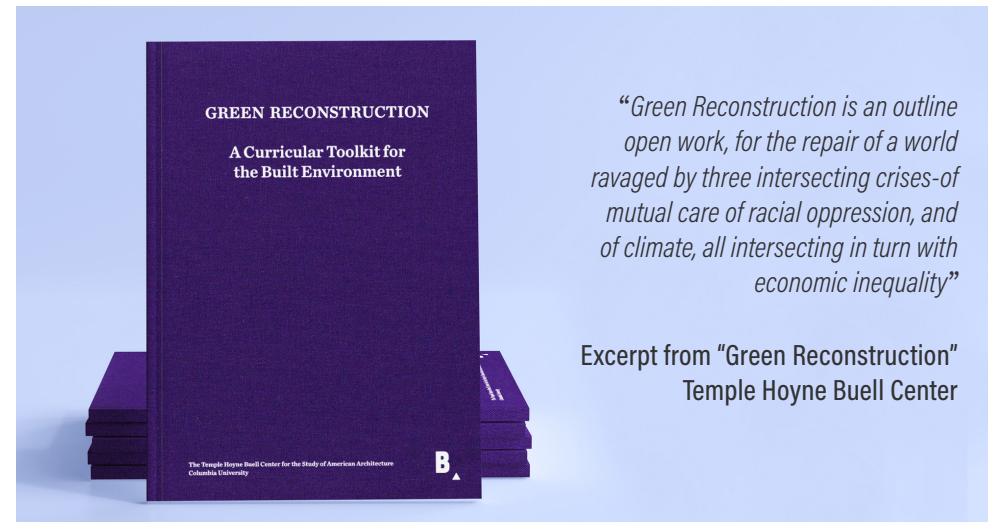
- 2022 EJ + Health + Decarbonization
Course Development Prize
ACSA
- 2022 Leading Climate Justice through Integrating
Decarbonization Strategies into the
Curriculum
Organizer and Moderator
ACSA
- 2022 Environmental Justice With Building
Decarbonization
Speaker Interdisciplinary Research Climate-
Teach In
- 2021 Anti-Racist Sustainability
Panelist
Green Build International Conference
- 2021 Climate and Equity in BTES Virtual
Conference
Moderator, Building Technology
Educator Society

PUBLICATIONS

- 2022 College of Engineering and Architecture
Howard University Website
- 2022 Changemakers in Architecture Department
Howard DIG magazine
Environmental Justice
- 2022 Bison Beat
Howard University Newsletter
- 2022 Course Prize Development Award
ACSA
- 2020 Green Reconstruction Curricular Workshop
Buell Center Power
Columbia University

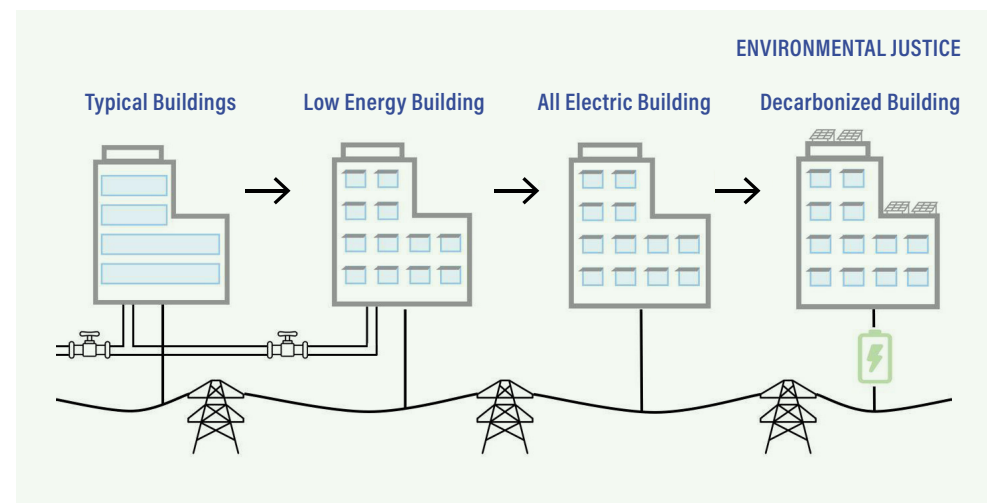
Book

**Green Reconstruction:
A Curricular Toolkit for
the Built Environment**



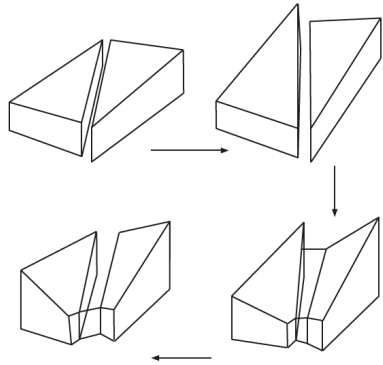
Curriculum Workshop Course Prize Award

- Environmental Justice (EJ)
(2.5 weeks)
- EJ + Healthy Building Material
(2.5 weeks)
- EJ + Building Decarbonization
(10 weeks)



Speaking Engagement





Student Work, Jenna G
3rd Year Design III Studio



“The collaboration helped to improve students understanding of structures and building systems as they were learning them in Professor Maloo’s class but they also saw the value of how these technical elements could enhance and order their designs.”

Dahlia Nduom, AIA, NOMA, Assistant Professor
HU, College of Engineering and Architecture

ARCHITECTURAL STRUCTURES & ENVIRONMENTAL SYSTEMS

Howard University Washington, D.C. 2014 - Present

Role: Creator and Faculty Instructor

CHALLENGE

Integrate building science and performance education with studio design to train professionals with the ability to provide integrated solutions to performance, experiential, and aesthetic challenges of the built environment.

RESOLUTION

Professor Maloo created the advancement of integration with studio design. Integration here refers to reinforcing discrete concepts from building sciences courses in the design studio and demonstrating to students how they could aid, order, and inform the design. The use of design studio work in small exercises within the building sciences courses also helps as a teaching tool to further understand and apply key concepts in those courses. The aim of the repetition of activities is that ideas are reinforced, used, and retained by students. In addition, students understand their role as professionals who integrate structural engineers’ and other consultants’ work in their designs.

IMPACT

- The students received the experience of the actual Architectural design process in practice in the teaching.
- The survey of students showed the knowledge of building science improved after the integration exercise.
- The evidence can be seen in the upper-level design projects and thesis projects where the students show the application of knowledge a depth of integration.
- The integration has created change in the studio culture for the other levels of the design studio to integrate more with the lecture-building technology classes.
- The innovative teaching has been the catalyst for creating a comprehensive studio for the upper-level classes implemented in the curriculum.
- The creation of comprehensive studio for the upper-level classes had been implemented in the curriculum.

PUBLICATIONS

- 2019: ACSA, Annual 108 meeting “Strategic methods of Integrating Building science and Design” Co-authored
- 2020: ACSA “Strategic methods of Integrating Building science and Design?” San Diego, CA

Declaration of Responsibility I have personal knowledge of the nominee’s responsibility for the exhibit listed above. Which included primary responsibility for collaborator for research, colleague, and publication.

Dahlia Nduom, AIA, NOMA
Assistant Professor, Department of Architecture



SOLAR DECATHLON, 2022

“Professor Maloo served as the faculty advisor for a Howard team that competed in the U.S. Department of Energy Solar Decathlon, the team collaborated in a manner that leveraged their knowledge of architectural and engineering fundamentals and innovations”

John M M Anderson, Ph.D.
Dean, College of Engineering and Architecture

U.S. DEPARTMENT OF ENERGY, SOLAR DECATHLON

National Renewable Laboratory Golden, Colorado 2021 - 2022

Role: Faculty Mentor

CHALLENGE

Introduce Howard's students to the rigor and innovation required to compete at a national level in the US Solar Decathlon, introducing the skills to complete the carbon calculations and energy modeling.

RESOLUTION

Professor Nea Maloo created a collegial and cooperative environment, forming a bond between an interdisciplinary architecture team and civil engineering students from Howard University. Her students experienced practical, real-life, and professional challenges while witnessing lobbying for project funding, physical travel, and earning a platform to conceptualize and present in person at the National Renewable Energy Laboratory in Golden, Colorado. **As a result, students successfully navigate real-world experiences and networking opportunities.** Ultimately, the Howard University student team won the Director's Award, qualifying their automatic participation in the Solar Decathlon Mentors.

Professor Maloo elevated her department and college by acquiring the **Net-zero designation** for her university by the **U.S. Department of Energy**. This pioneering and impactful designation portends a significant pipeline of fostering and encouraging high school students of color to pursue the field of architecture. She also created a new interdisciplinary pedagogical course, "Equitable High-Performance design," at Howard University that will empower students to be leaders in sustainability, proliferating awareness of diverse, equitable, and inclusive collegiate participation.

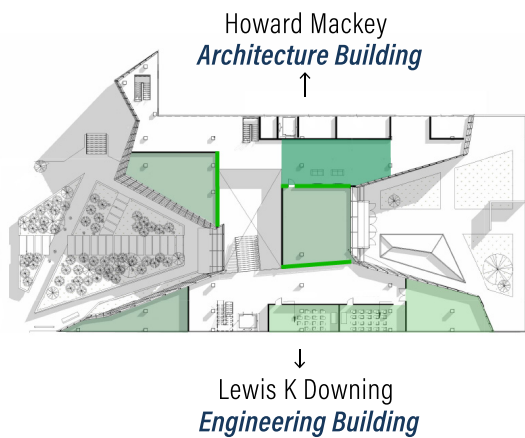
IMPACT

- Students experienced real-life professional experience and developed skills
- Howard University students participated for the first time in the 20-year history of the competition
- Acquired software for the Department, and students acquired skills to do energy modeling
- Developed Industry partners for support and network of students
- Raised funding for the travel opportunity to the NREL campus near Denver, Colorado
- First-time Howard students included being Mentors of Solar Decathlon
- Creating new Design concentration and courses – Equitable High-Performance buildings Design
- Awarded the U.S. Department of Energy, Net-Zero designation – creating a new pipeline for high school students to be attracted to enter the profession
- The creation of a comprehensive studio for the upper-level classes implemented in the curriculum

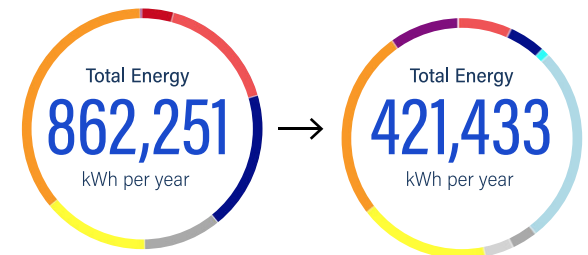
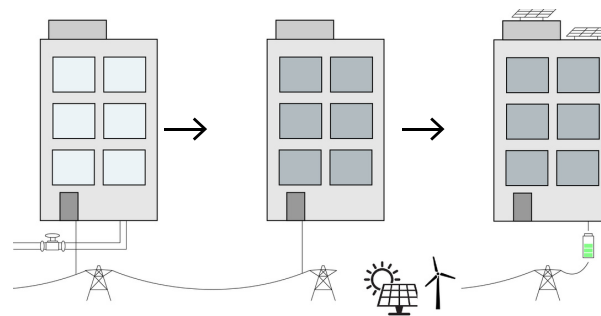
Declaration of Responsibility I have personal knowledge of the nominee's responsibility for the exhibit listed above. Which included primary responsibility for Administrator role.

John M. Anderson, Ph.D.
Dean, College of Engineering and Architecture

Howard Students Submission



Typical building *Full Electric Building* *Decarbonized Building*



Site Plan ————— **Net-Zero / Decarbonization** ————— **Energy Impact**

Design Process, Energy Analysis and Rendering of Howard Students for the Solar Decathlon Competition

3.5 | BREAKING BARRIERS

STUDENT COMPETITION GOALS

An interdisciplinary team working towards exposing minorities to the future of Science Technology Engineering Architecture and Mathematics (S.T.E.A.M.)



GATEWAY

Connection building to provide a safe space for current architecture and engineering students to collaborate.



DECARBONIZATION

Mitigates new consumption and reduces 50% of consumption in existing buildings fostering an eco-friendly environment.



COMMUNITY

The objective is to provide a gateway into Howard's campus that caters the CEA students and the surrounding minority community.

PUBLICATIONS

2022 Solar Decathlon Design Competition, Department of Energy, National Renewable Energy Laboratory

2022 College of Engineering and Architecture Website

AWARDS

2022 Director's Award

SPEAKING ENGAGEMENT FOR STUDENTS

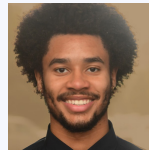
2022 National Renewable Laboratory Golden, Colorado

2022 Cannon Design, Washington DC

2022 College of Engineering and Architecture students, Washington DC

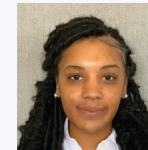


U.S. DEPARTMENT OF ENERGY
SOLAR DECATHLON



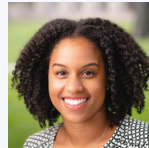
Dean Bailey

"I learned what all get into decarbonization and the positive impact such movement has on the future"



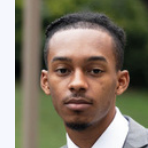
Shatonia Presley

"It was interesting to learn how to navigate and condense all of our ideas into a final project"



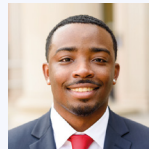
Lauren Moore

"I learned how to use research and outside resources to solve problems in a way that I have never done before"



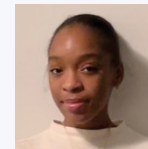
El Adon Bey

"I learned new sustainable and energy saving strategies and how to work on a design team to produce a multifaceted project"



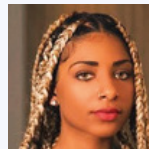
Malik Johnson

"I learned different methods on how to make a building net zero and also how to decarbonize it"



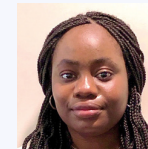
Etana Sesay

"I learned what all get into decarbonization and the positive impact such movement has on the future"



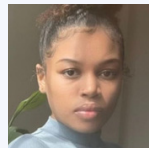
Dia Harris

"I learned about all the different approaches to get to a net zero building"



Daphne Arko-Dadzie

"I learnt so much about what needs to go in a building envelope to help conserve energy in a real context"



Amina Johnson

"I learned a lot about reducing energy use of a building"



Marketing Brochure
Mission, vision, and core values

“The students that I met in Professor Maloo’s class will be well prepared to enter the profession with an understanding of the business and legal aspects of the practice”

Robert F.Herrmann, Principal, Offit Kurman
Chair of the New York Construction Law Practice

PROFESSIONAL PRACTICE

Howard University Washington, D.C. 2013 - Present

Role: Faculty Mentor

CHALLENGE

Adapt professional practice curriculum to foster personal resilience and address real world challenges faced by young professionals of diverse backgrounds in the business of architecture.

RESOLUTION

As a business owner and role model, Professor Maloo inspires her students to dream of entrepreneurship and leadership in the profession. The students are engaging in creating their personalized goals for life in the real world. They create visual and written goals to define their family, work, and world balance. Professor Maloo brings a variety of speakers to make the most robust and experiential examples to help simplify the various aspects of the profession. The students work with an attorney, marketing professional, and firm principals who give lectures, mock trials, and virtual ethics challenges. The students work to respond to actual requests for proposals and create a business plan, including financial statements. The students are trained to develop critical skills needed to flourish and pursue licensure.

Nea Maloo was one of the recipients of the National Council for Architectural Registration Boards invited professional practice scholar. She was invited to the national roundtable of professional practice to share her innovative way of teaching virtual ethics with role play and drama. The roundtable was attended nationally by 50 plus practicing educators globally. Nea Maloo has co-hosted both the pre-summit professional practice and theand the licensing advisor professional practice for the international summit.

IMPACT

- Professor Maloo has led roundtables to teach other professional practice educators
- Led the first DEI for licensing advisors, who have a broader impact on the profession
- Hundred percent of her students have established NCARB record
- Her students have increased confidence and skill set; all her students secured an internship
- 20 percent increase students taking architecture registration exams
- 60 percent increase in students pursuing entrepreneurship and opening businesses of their own
- Students are exploring Architecture as a long-term profession which increase the levels of diversity in the industry
- She has included many of the top firms to be guest speakers and mentors to her students
- Created Slack network to mentor students after they graduate to licensure

Declaration of Responsibility I have personal knowledge of the nominee’s responsibility for the exhibit listed above. Which included primary responsibility for academic peer role.

Edward Douglas Dunson II, AIA, NOMA, NCARB,
Associate Professor of Architecture, Former Chair of the department.

3.6 | LEADERSHIP SKILLS

SELECTED AWARDS RECEIVED

- 2021 Professional Practice Scholar, NCARB
- 2021 Pro-Practice Roundtable Focus EDI, NCARB
- 2021 Pro-Practices Session NCARB Licensing Advisor Summit
- 2020 Virtual Ethics, NCARB, Innovative Teaching
- 2019 Sho-Ping Chin Women’s Leadership, Summit Grant
- 2018 Featured Teacher 2 -CETLA (Center for Excellence in Teaching, Learning and Assessment) Invited Speaker

NOTABLE STUDENTS AWARDS

- 2022 Dean Bailey, Gensler’s “Rising Black Designers Scholarship + Design Challenge”
- 2021 Natasha Graves, Desiree Cooper ARE Scholarship
- 2021 Autum Tomland, Crew Internship
- 2020 Natasha Graves, AIA Licensed Architect
- 30% Increase in students acquiring Leed AP professional licensure before graduates

NEW INTERNSHIP OPPORTUNITIES

- AIA HBCU internship
- Walt Disney Imagineering Program Participant
- Grunley Construction
- Gensler
- Quinn Evans
- Crew Internship

“Taking Professional Practice from Professor Maloo gave me the opportunity to write my first business plan and practice using marketing techniques such as flyer making and presentations.”

Lindsey Squirewell, Graduated Howard Student



Student work, Baseball cards
Developed hard skills and soft skills



Student work, Business Plan
Creation of financial plan for a startup Architectural business



Student work, Goals
To create work, family and career balance



Presentation Research Month



Howard Student Award

“Her innovative integration of design, global equity, and climate action, advances environmental justice and promotes collaborative multidisciplinary scholarship.”

Stephen Arhin, Ph.D.
Associate Professor, Civil and Environmental
Engineering (CEE) Department
Howard University

RESEARCH MONTH

Howard University Washington, D.C. 2014 - Present

Role: Faculty Mentor

CHALLENGE

Train new professions to be able to adapt beyond codified pedagogy and address the challenges of the future, by designing and directing a program for student-designed research opportunities.

RESOLUTION

Professor Maloo fosters freedom of voice and supports student innovation. She encourages her students with the first-time exploration of ideas and participation in university research week. This student-led initiative is the first-time architecture department students have participated in university-wide research.

IMPACT

- Professor Maloo has led roundtables to teach other professional practice educators
- Led the first DEI for licensing advisors, who have a broader impact on the profession
- Hundred percent of her students have established NCARB record
- Her students have increased confidence and skill set; all her students secured an internship
- 20 percent increase of her students are completing licensure and have started taking exams
- 60 percent increase in students pursuing entrepreneurship and opening businesses of their own
- Students are exploring Architecture as a long-term profession which increase the levels of diversity in the industry
- She has included many of the top firms to be guest speakers and mentors to her students
- Created Slack network to mentor students after they graduate to licensure

SELECTED STUDENT PUBLICATIONS AND AWARDS

- “The effect of biophilic design on the stress and performance of college students”
- “How urban density affects water accessibility in developing countries”
- “West african biophilic architecture”
- “The implementation of drainage design methods to resolve flooding issues in trinidad and tobago”.
- “The new studio: the application of a field studio in a disadvantaged community”
- “Effects of environmental racism: the food desert dilemma”
- Howard University Research Symposium Award, 2017
- Howard University Research Symposium “Business” Award, 2017
- Huy Bui, AIA Henry Adams Medal

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Edward Douglas Dunson II, AIA, NOMA, NCARB,
Associate Professor of Architecture, Former Chair of the department.



 Student visit, The American Institute of Architects 2022

“As my advisor for my AIAS presidency, Professor Nea Maloo directed me to make a change. Under her guidance and encouragement, AIAS consistently realized measurable gains”

Isabella Adekoya, Howard Student Graduate
Former president, HU AIAS

AMERICAN INSTITUTE OF ARCHITECTS

Expanding the Profession International, 2000 - Present

Role: AIA’s Faculty Advisor, Co-chair of AIA Committee of Education, Emeritus AIA Higher Education Advisory Group

CHALLENGE

To raise awareness, encourage, and prepare young diverse talent to pursue the path of architecture and appreciation and relevance of the profession in the larger society. Leading outreach and education efforts in areas that the profession has traditionally ignored.

RESOLUTION

Professor Maloo serves the profession through advocacy, role model, educator, and mentor. She has initiated and bridged the gap of exposing her students through field trips to AIA and encouraging internship opportunities; Nea Maloo has promoted the profession through her service in the Washington Architecture foundation’s school programs in mentoring young elementary children in the creative aspect of design. She continues expanding her service by speaking at hundreds of career fairs, including the Phelps Engineering high school to inspire the young to learn and appreciate the built environment. Additionally, she serves as the architecture merit badge counselor for scouts of America, promoting why architects play an essential role in society.

She is currently serving as co-chair of the AIADC Committee of Education. She also is the president-elect of the Building Technology Educators Society, where she brings voice to the underrepresented people in the profession. In addition, she has served in AIA Higher Education Advisory Group. Finally, she has been an active panelist in the national award-winning initiative, Riding the Vortex, which, empowers the increase of more black women in the profession.

IMPACT

- Expanding awareness of the architecture profession in school children
- The development of the committee of education has led to a meaningful national conference in NOMA on Disruption & Regeneration: How COVID-19 is redefining “Classrooms”
- Nea Maloo has made learning spaces for all students an essential goal in discussing in the committee of Education
- She has awarded almost 50 plus architecture merit badges to young scouts who have the exposure and pursue architecture in college
- Encouraged her students to join the AIA HBCU internship for the last two years
- Connecting AIA representative with the her students through her case study and field trip
- Encouraging student leadership and expanding AIA’s in Howard University

Declaration of Responsibility I have personal knowledge of the nominee’s responsibility for the exhibit listed above. Which included primary responsibility for professional colleague.

Jeffrey Luker, AIA, LEED AP
Principal, Quinn Evans. AIA DC co- chair, Committee of Education



MEDIA

- 2022 "Future architects help design" AIA's HBCU Internship program
- 2000 AIA/DC Magazine, Architecture in Schools

Professor Maloo served on two Riding the Vortex Panels which has made a direct impact on the increased number of African American Women Architects. As of the summer of 2021, Vortex has been a major catalyst in the 254% growth in African American Women Architects since its inception.

INVITED /PEER REVIEWER

- 2019 Director's Award
- 2019 Intersection's symposium (ACSA + AIA)



SPEAKING ENGAGEMENT FOR STUDENTS

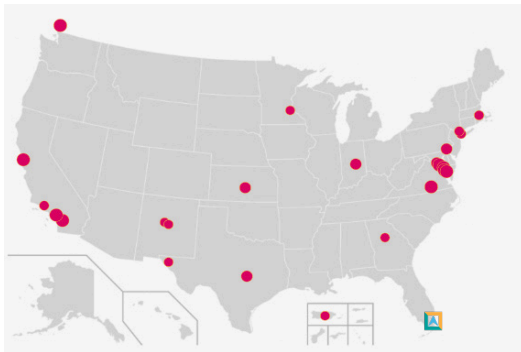
- 2022 AIA/DC Committee of Education, Fall event
- 2016 Resilient Women "The case of Howard University Graduates of Architecture and Planning" Design DC, AIA/DC, Washington D.C.
- 2016 Riding the Vortex Architecture Exchange East Richmond, VA
- 2015 Women in Architecture, Howard University
- 2014 Riding the Vortex, Philadelphia, PA

"Having a tangible example of someone that understood what it was like to be a woman in a male-dominated field and the personal background that Professor Maloo has, meant there were no excuses for me to obtain licensure"

Natasha Graves, AIA, Graduated Howard Student
Preconstruction Manager, John Moriarty & Associates



NCARB Licensing Advisors Summit



Participants Locations



NCARB

Licensing Advisors Summit Miami, Florida, 2000 - Present

Role: Architect Licensing Advisor

CHALLENGE

Advance the NCARB licensing process and transform outdated mentoring mindsets to remove barriers to diversity and equity in the profession.

RESOLUTION

Professor Maloo, along with Kristina Yr, led the organizers to have candid discussions on DEI in professional practice. She also organized and led the professional practice session at NCARB's licensing advisor meeting in Miami. The session explored the topics of "How can EDI/DEI concerns be planned/implemented in the architectural curriculum?" "What implementations diversity, equity, and inclusion practices are present in firms today?" "How are clients, user groups, practitioners and collaborators interacting with EDI/DEI practices and values."

IMPACT

- Nea Maloo's service as moderator for the first NCARB Licensing Advisors Summit Professional Practice session devoted to discussions on Diversity, Equity and inclusion in professional practice successfully shared ideas on creating safe spaces for young people of color to thrive
- The NCARB Professional Practice Roundtable was virtually attended by educators, principals of firms and licensing advisors who are the conduit to creating more inclusive culture for future generations
- Nea Maloo was successful in teaching and collaborating with other professionals focused on thought leadership on inclusiveness in the academy and firms
- Professor Maloo was a catalyst for reimagining the creation of professional practice to an environment that addresses society's current cultural and health needs

"She is always seeking out opportunities for her students and pushing them beyond what they think they can achieve. She also seeks out opportunities to give her students exposure to information and architecture methodology beyond just the resources at the University"

Katherine Williams NOMA, AIA, LEED AP
Assistant Director, Georgetown University

Declaration of Responsibility I have personal knowledge of the nominee's responsibility for the exhibit listed above. Which included primary responsibility for co-lead the Architect Licensing Advisors Summit

Kristina Yu, AIA
Associate Dean, University of New Mexico



NCARB Record

2015

ARE 5.0
Exam Committee

2017-19

Professional Practice
Community

2019

Architect licensing Advisor,
Howard University

2020

Test Provider
Review Committee

2019-2021

Experience Committee,
Position Educator

2022-2023

PRESENTATIONS

- 2021 Summit Pro-Practice Roundtable focus EDI
NCARB Licensing Advisor, Virtual
- 2021 AIA/DC Magazine, Architecture in Schools
- 2020 Virtual Ethics NCARB Professional Practice
Roundtable, Innovative Teaching

AWARDS

- 2021 Professional Practice Scholar Award
Professional Practice Professors

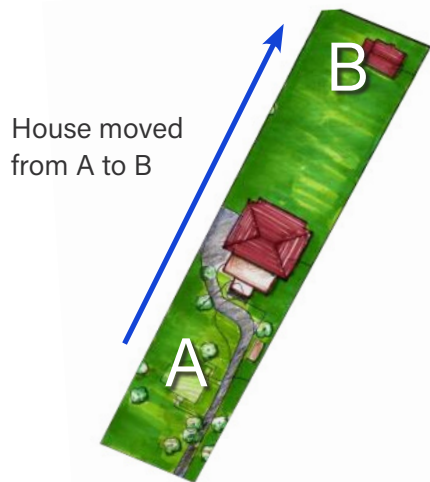
MEDIA

- 2021 NCARB Scholars Explore the Future of
Academia and Practice
<https://www.ncarb.org/blog/2021-ncarb-scholars-explore-the-future-of-academia-and-practice>

Miro Board. NCARB Pre-Summit: Professional Practice Virtual Session



Moving on wheels



House moved from A to B

SINGLE FAMILY RESIDENCE AND ACCESSORY DWELLING

Showcase Architects Silver Spring, Maryland 2007 - 2011

Role: Project Architect

CHALLENGE

Build a model for more sustainable and adaptable residential housing on an environmentally constrained site. The site had an existing 1940-built home with a brick façade. The county zoning would allow only to raze of the current house.

RESOLUTION

Professor Nea Maloo teaches what she practices. She got the county to create way so she could save the existing property, by moving it to the back of the property. Nea Maloo designed, permitted, and created partnership with county and planning department to build this first home with Structural Insulated Panel (SIP). She designed home with natural sunlight, LED lights, healthy green materials, geo-thermal pipes, daylight, and cross-ventilation. The home is designed for multiple age groups of family, with the context of culture and aging in place.

IMPACT

- The requirements and process Maloo helped devise to move an existing building are now an option on the permit process for every permit application
- That created option for all builders to be able to move before the demolition of a building
- Created awareness to the planning office by giving them a tour of geothermal wells and created the first Structurally insulated panel wall construction in the county
- Build with Industry partners such as Kohler, DOW chemicals, Sherwin Williams, and Velux towards the path of sustainable building products
- The home received Energy star certification and aging-in-place design
- The project led to her being an eco-estate developer, where she plans to build eight net-zero off-the-grid homes
- Students see the possibility and means to solve next-generation problems by working with local officials

PARTNERS AND SPONSORS OF THE ECO-STATES



Declaration of Responsibility I have personal knowledge of the nominee's responsibility for the exhibit listed above. Which included primary responsibility for project design and development.

Juan Utrera, PE
Structural Engineer, Unlimited, LLC

3.10 | DESIGN AND DEVELOPMENT

PRESENTATIONS

- 2018 Architect's Roadmap for Being Developer, Architecture Exchange East, Richmond, VA.
- 2014 "Digital Architecture ", NOMA, National conference, Philadelphia.
- 2009 "Green Economics" AIA DC, Design DC, Washington D.C.

MEDIA

- 2009 Current Newspaper
<http://issuu.com/currentnewspapers/docs/dp03-05-2014>, pg. 21
- 2016 Maryland Public Television, Money and Business
- 2009 Video.mpt.tv
<http://video.mpt.tv/video/1527942969>
- 2009 Architect Begins Building One of Metro Washington's First Green Subdivisions
Builder online.com
- 2009 Nurturing Eco-Development in the D.C Area
Green Building advisor.com
- 2009 Contractor Magazine
<http://contractormag.com/green-contracting/large-homes-energy-efficient-1009/index.html>, Oct 2009

"Showcase backed its promise by preserving all the trees on the 1.1-acre site and by relocating one of the site's inhabitants, a 1940s Cape Cod, to the rear of the property, where it will be modified and used as a guesthouse."

Richard Defendorf
Green Building News, 2009



Rear View



Exterior View



Interior View



HON. STEPHEN T. AYERS, FAIA

11th Architect of the Capitol (ret)
President,
The Ayers Consulting Group, LLC

Guest lecturer and AIA Collaborator



ANZILLA GILMORE, FAIA

Director of Diversity and Inclusion
Rice University
Houston, Texas

Long-time NOMA Colleague, Visiting Guest Lecture



ALETHIA IDA, AIA

Associate Professor of Architecture
Director, "Reconstruct"
University of Arizona
Tucson, Arizona

BTES Board Member, Research Collaborator



PETER RUMSEY PE, FASHRAE

Lecturer
Stanford University
Stanford, California

Collaborator Decarbonization Class



BRADFORD C. GRANT, RA

Howard University, Washington DC
Professor, Interim Chair
Former Dean Hampton University

Long-time Colleague, Supervisor



HARRY M. FALCONER, JR. FAIA

Vice President, Experience + Education
National Council Architecture Registration Board
Washington DC

Long-time NCARB Colleague



KRISTINA YU, AIA

Associate Dean, Associate Professor
University of New Mexico
Albuquerque, New Mexico

Professional Colleague NCARB Summit