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PUBLICATION

WINNER

2023

APEX[®]

AWARDS FOR
PUBLICATION EXCELLENCE



WINNER
2023
PLATINUM
AWARD

HERMES
CREATIVE AWARDS



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O U R M I S S I O N

**Understanding the natural world and
inspiring everyone to care for it**



Select

Accomplishments & Recognition

11K

new biological specimens digitally cataloged and made accessible to scientists worldwide

100K

plastic water bottles saved from landfills and nearby waterways

\$9M

raised toward building a healthy, sustainable and equitable planet

"An exhibition unlike anything else in the Academy's long history."

The Philadelphia Inquirer

"The Academy of Natural Sciences is leading a new campaign to encourage the general public to think twice about single-use plastic water bottles."



"The [Academy's] collection allows professionals and students alike to examine birds to learn more about the greater world around them."



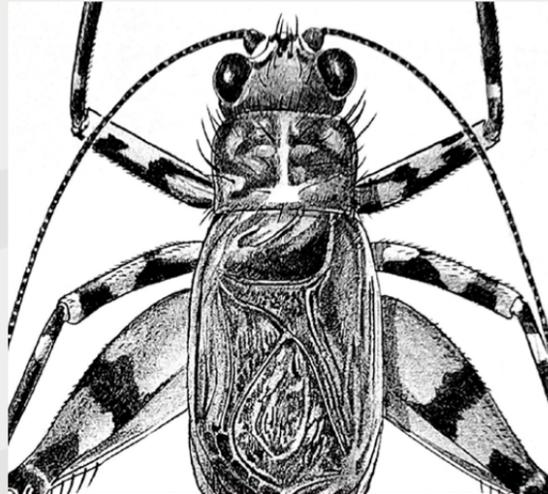
"That within the tens of thousands of slides deposited in the recesses of the Academy are environmental breakthroughs waiting to be decoded."



Recognized by Media



The Academy is a force for nature because we understand nature, build resilience, democratize science, drive change and solve problems.



WE UNDERSTAND NATURE

through the stewardship of our massive collections of biological specimens, books and archives available for Academy scientists and researchers around the world to accelerate discoveries in biodiversity, evolution and humanity's impact on the planet. Our collections are vital to scientists across the globe in their work to better understand the composition and health of the natural world.

Read more about our collections on page 9.



WE BUILD RESILIENCE

by keeping our waterways healthy through the systems-level application of innovative science. From the establishment of the revolutionary Patrick Principle to the \$100M, multiphase Delaware River Watershed Initiative, we have led the science that has kept millions of people's freshwater clean for 75 years.

Read more about our water science work on page 15.



WE DEMOCRATIZE SCIENCE

through our inclusive community science programs. The Academy is developing innovative, scalable programs that engage communities of interest and need, offer access to learning and education, and deliver social and scientific impact.

Read more about our community science programs on page 19.



WE DRIVE CHANGE

by creating environmental awareness through our broad-reaching thematic programs and campaigns. We are distinctive among natural history museums in focusing our resources on annual, collaborative efforts that connect to our mission-driven aims in climate, water, biodiversity and evolution.

Read more about our thematic campaigns on page 25.



WE SOLVE PROBLEMS

through our groundbreaking research and our partnership with The Environmental Collaboratory — a participatory platform co-created by the Academy and Drexel that unites both institutions with communities of need in a shared endeavor to sustain our planet and mitigate its degradation.

Read more about The Environmental Collaboratory on page 39.

A FORCE FOR NATURE™

**WE
UNDERSTAND
NATURE**

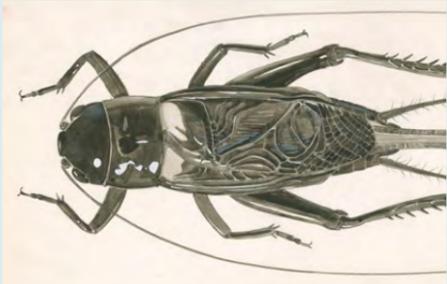


The Sounds of Science

High up in the mountains, across sprawling valleys and deep into caves, Dan Otte, PhD, senior curator emeritus of the Entomology Collection at the Academy, has traveled all over the world capturing the songs of insect biodiversity.

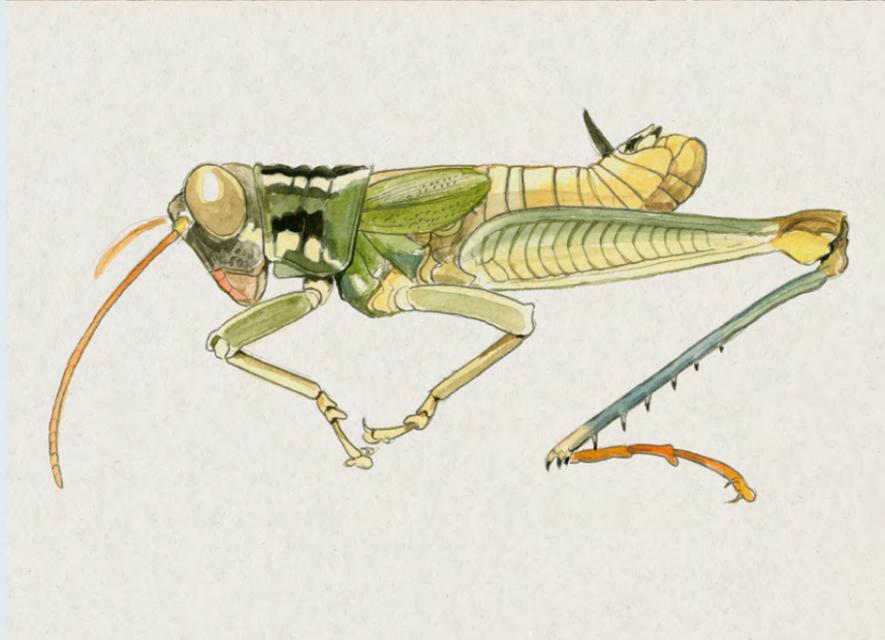
WE UNDERSTAND NATURE

And it certainly wasn't easy. Working in the 1970s and 1980s, there were no field guides or books for researchers to identify the many species of grasshoppers and crickets; in fact, Otte had to create them. Using his broad-ranging travel experiences and deep-rooted knowledge, he is now author and illustrator of numerous scientific works, including the essential volumes on North American grasshoppers — helping entomologists and agriculturists alike to better visually identify these insects.



Now, with a prestigious and highly selective OPUS Grant from the National Science Foundation, one that synthesizes the life-long work of highly productive scientists, as well as another major nationally renowned Institute of Museum and Library Services grant to digitize some of his astounding collection, Academy scientists are making Otte's scientific discoveries and achievements in entomology accessible to the community through an entirely new medium — audio.

While Otte stomped through the grass collecting specimens of Orthoptera, which includes grasshoppers, crickets and katydids best known in the bug world for their use of sound to communicate, he also had the brilliant idea to document their various chirps and buzzes on hand-held tape recorders. Academy scientists were eager to have this enormous, lifetime tape collection digitized — now made possible with these grants.



"It is truly one of the most important and tremendous collections we have," said Jon Gelhaus, curator of the Academy's Entomology Collection. "Preserving these files for the long term, making them accessible to the scientific community so that we might not lose all this valuable information, it has been an absolute priority for us. And as an institution, this is just what we do."



Making these outmoded tapes accessible to new audiences, however, is easier said than done. "We've never dealt with something like this before," said Greg Cowper, project manager for the Otte Sound Archives. "While it was complicated and challenging, it was also exciting and rewarding, especially working with Drexel's audio engineers and archivists."

So far, Cowper and Drexel co-op Mikayla Traini have digitized over 200 physical cassette and reel-to-reel tapes using Drexel University's state-of-the-art recording studio, with help from Toby Seay, project director of the Drexel University Audio Archives. These archival-quality clips are now part of the same audio collection that houses "The Sound of Philadelphia" — thousands of Sigma Sound Studio master tapes.

By capturing these insect songs from across the globe and throughout several decades — especially in sensitive and fragile island ecosystems where some of the species may now be extinct — Otte has significantly revolutionized the scientific landscape for generations of explorers and listeners to come.



Dan Otte's Lifetime Scientific Achievements

25%

of the world's known
species of crickets
described

117

scientific sites
visited across
the world

1,850

Orthoptera
species new to
science described

Dan Otte's Global Research and Areas of Scientific Discovery



A FORCE FOR NATURE[®]

**WE
BUILD
RESILIENCE**



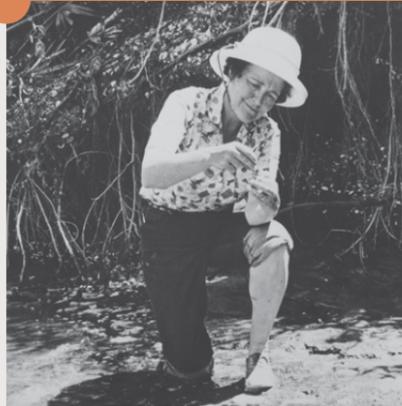
75 Years of
Cutting-Edge
Water Science

WE BUILD RESILIENCE

Since 1947, the Academy's Patrick Center for Environmental Research

has been devoted to understanding, protecting and restoring the health of waterways for everyone. From the transformative development of the Patrick Principle to the real-world, research-based work with community members and stakeholders, Patrick Center scientists have built an enduring legacy of clean water advocacy and sustainability.

1947



Pioneering environmental activist Ruth Patrick founded what is now known as the Patrick Center for Environmental Research at the Academy, creating one of the first institutional departments that explores the real-world ecological impacts of human activity.



1972

The Clean Water Act is established, revolutionizing our relationship with water across the nation, with Patrick Center scientists playing a critical role in its development and promotion.

1984



Cutting-edge research into harmful PCBs and contaminants with on-the-ground fish studies of the Housatonic River established best practices for pollution damage control in waterways across the United States.



2000

Authoring the first study of its kind, Patrick Center scientists fundamentally shaped the scientific community's understanding of the ecological and economic impacts of dams on nearby communities.

2006



The Delaware River Basin Commission, as well as the Environmental Protection Agency, DuPont and Amtrak, enlisted Patrick Center scientists for their expertise in fish ecology to help set new standards for industry contaminant levels in major water resources across four states.



2010

Initiating groundbreaking work on the impact of Marcellus Shale fracking on creeks and streams in the Delaware River watershed, Patrick Center scientists championed environmental justice by testifying to local and federal governments about the importance of clean water for all.

2011



The renowned Delaware River Watershed Initiative is created and scientifically led by the Patrick Center, bringing together 60 local environmental organizations with countless stakeholders and community members to support safe, clean and renewable water resources for 15 million people.



2021

In partnership with U.S. Fish and Wildlife Service, Patrick Center scientists provided technical leadership in the Delaware River Basin Conservation Blueprint, a new project to identify major conservation and equity issues all along America's Northeast Coast.

A FORCE FOR NATURE™

**WE
DEMOCRATIZE
SCIENCE**



Lights, Camera, Action

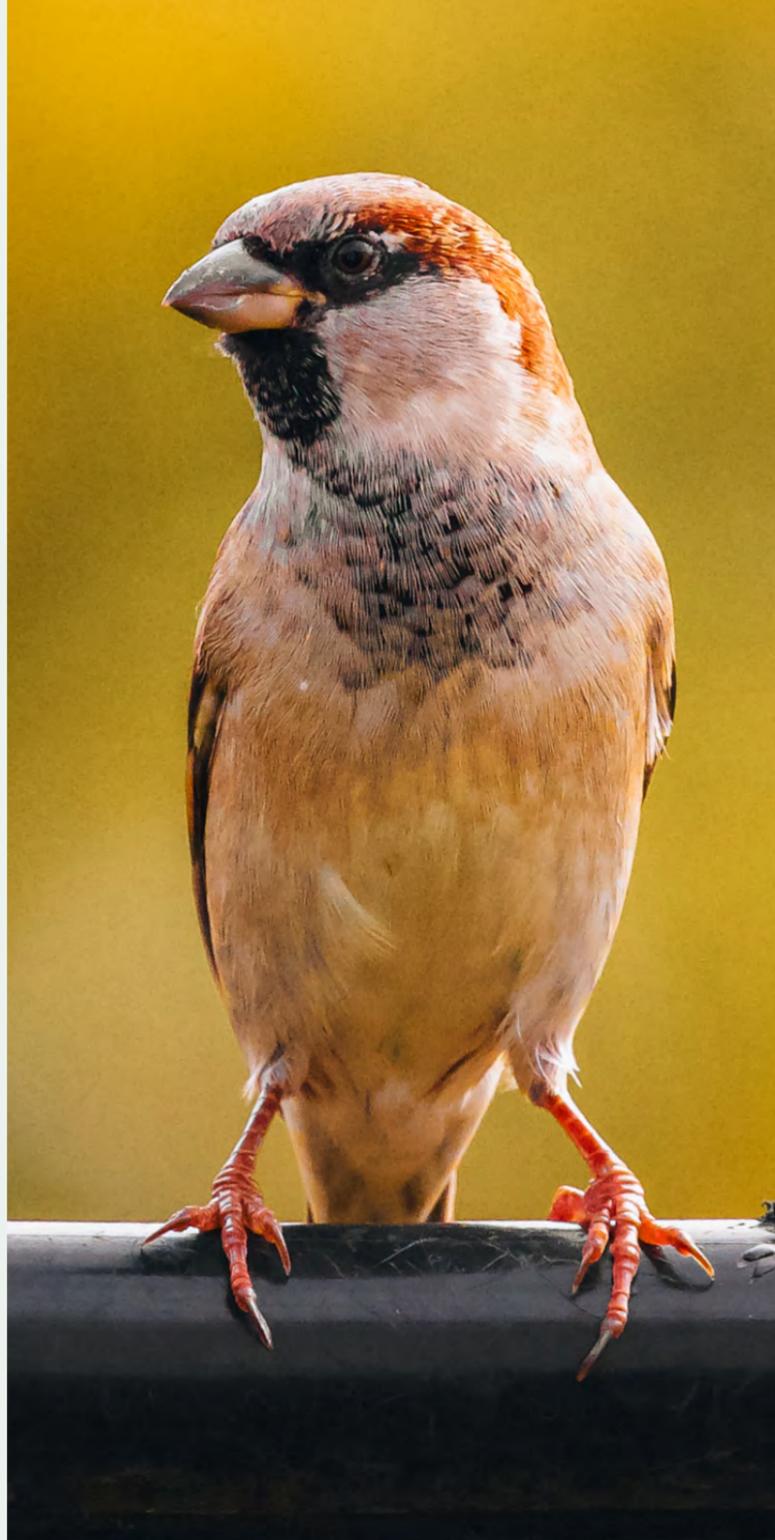
Sean Stallworth of the Academy's Community Learning Division reflects on the success of Black Excellence in Birding: "We wanted to create something meaningful, impactful, something so much bigger than we could imagine."



And that's exactly what this team did. A dazzling, sold-out event, Black Excellence in Birding was created to kick-off Black Birders Week, a national series that highlights Black nature enthusiasts and aims to increase the visibility of Black birders, who face unique challenges and dangers when engaging in outdoor activities.



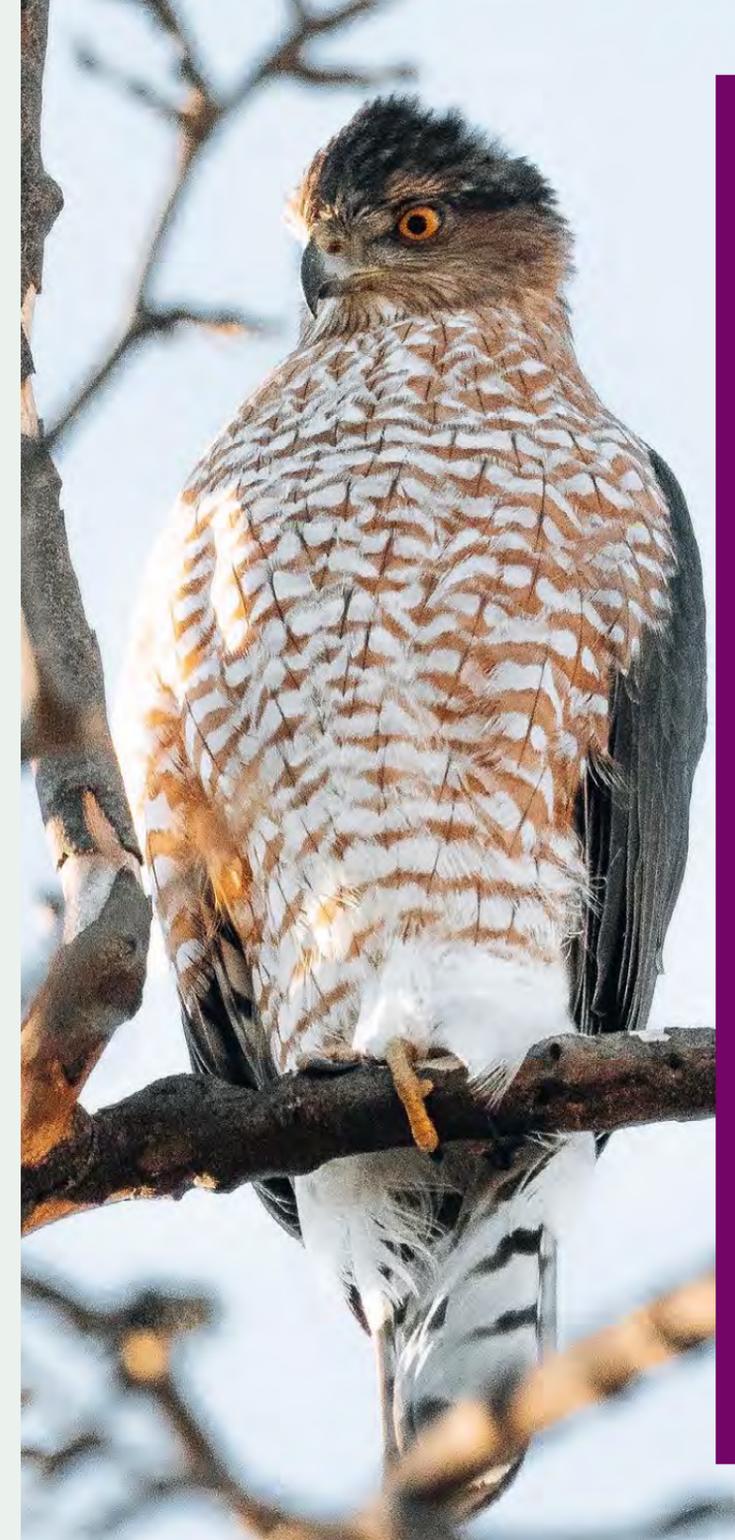
It was an ornithological night to remember and the first in the Academy's long history. Created in partnership with the African American Museum of Philadelphia and In Color Birding, with whole-hearted support from the BlackAFinSTEM Collective, the event brought together Academy scientists and guests with some of Philadelphia's most well-known Black birders.



The halls were filled with sparkling style, celebratory cocktails and exciting sightseeing tours. Panel discussions — which included Tykee James, Corina Newsome, Jason Hall and the Academy's Lead Keeper and prominent wildlife photographer Anwar Abdul-Qawi — provided opportunities to hear their real-life stories and successes.



"We've got a vision here at the Academy that is more inclusive, active and supportive," said Stallworth. "But it all comes down to change. There's 200 years of amazing history here, and now we — the Black community — are really part of that story."





Jason Hall

Founder of In Color Birding

The joy. The laughter. The common understanding we shared being Black and brown folks stepping into the Academy as our full and vibrant selves. At least three generations of nature and bird enthusiasts collectively filling up each other's cups within walls that have inspired so many Philadelphians. This night set a standard and example for our city and our country. It was in fact filled with excellence.



Tykee James

Sr. Government Affairs Representative for The Wilderness Society

We created an atmosphere of affirmation to celebrate Black people who bird and uplift stories of our historic connection to nature. The joy in the room was unextractable, unapologetic and reinforced the necessity and benefits of spaces for people who have been historically excluded from white spaces. I look forward to seeing how the Academy can meaningfully contribute to the creation of these spaces in the future as well as be a thought-leader on collaboration with the Black community in Philadelphia.



A FORCE FOR NATURE

**WE
DRIVE
CHANGE**



Creating
Awareness,
Building
Understanding
and Inspiring
Action

WE DRIVE CHANGE

Making Clean Water a Priority

Plastic-free Philly, an enormous collaborative, city-wide initiative led by the Academy, launched this year with a powerful, straight-forward aim: to reduce the flow of single-use plastic water bottles.



The Academy found new and inspiring ways to achieve this goal. Partnering with the Building Owners and Managers Association (BOMA) and the Building Industry Association (BIA), as well as the local art gallery HOT-BED Philly, we spearheaded 10 large-scale installations in high-profile locations across the city.

"What a terrific way to promote the reduction of single-use plastic water bottles!" said Deanna Ballinger, chair of BOMA Philadelphia. "We're honored to host the beautiful work of the artists and spread the word to use less plastic." HOT-BED Philly's Creative Director Bryan Hoffman added, "The opportunity to support Plastic-free Philly, Philadelphia and the Academy through art was, to me, a natural fit."

Each piece, created by local artists with diverse approaches, uniquely examines how our plastic habits impact the ecosystem — sparking conversation, connecting people to the watershed



and inviting them to join the Plastic-free Philly movement. The campaign received significant media coverage by WHYY, 6 ABC, NBC 10, *Philadelphia Magazine*, *Metro*, *Grid Philly* and many others.

To drive change and make a real difference, we partnered with local clothier company United By Blue and the Philadelphia Water Department to encourage tap water use and join local clean-ups. This resulted in hundreds of pledges to ditch plastic bottles and thousands of pounds of trash collected from local waterways.

This was only the beginning. The Plastic-free Philly clean water movement has plans to continue catalyzing environmental change in the city and beyond.



Kate Leibrand

Plastic-free Philly Artist of *Choking Hazard*

As a Philadelphia resident, a city dweller who also loves being outside and in nature, I see a ton of trash. I see plastic everywhere. I wanted to make a piece that talked about this pollution I see all the time. I decided to go with pilings and these smaller organisms that we don't usually see in the water because they are ingesting micro-pollution.

The point of the piece is to make it beautiful and draw a viewer in. So, I wanted it from far away to be this bright, colorful, patterned piece that people are immediately drawn in to, but once you're in it, you realize that the tiny details are all made of trash that are actually very harmful to the environment.

I think it's incredibly important for us to all start paying more attention to plastic waste — for not only ourselves but for anybody who comes after us.



Creating a Watershed Moment



"Bullfrogs rumble through the Dietrich, the benches capturing deep music pumping right through the wood; peepers are everywhere; geese create a frothy racket; water gushes through timbers... This is the immersive world of sound artists and composers Liz Phillips and Annea Lockwood, who have created an exhibition unlike anything else in the Academy's long history," Stephan Salisbury of The Philadelphia Inquirer wrote of our remarkable exhibit, *The River Feeds Back*.



A dynamic soundscape that explored the importance of water in a wholly new way, *The River Feeds Back* provided visceral, one-of-a-kind moments in which visitors were transported to the subaquatic worlds of the Schuylkill River and its nearby streams by creative listening portals arranged throughout the Dietrich Gallery.



This new experience gave voice to the life — the story — of this vitally important river through the powerful medium of sound.

As part of *Watershed Moment*, our bold, multi-faceted signature Water Year project, *The River Feeds Back* was accompanied by a sound arbor open to the public on the Schuylkill River created by the two artists. Called *Inside the Watershed* — where the vibrating music of the river ebbs and flows with the sounds of the city — this piece culminated our thought-provoking art adventure walk, *How to Get to the River*, created by New Paradise Laboratories.

Uniquely designed to connect people with their local waterways and the vital need to protect them, *Watershed Moment* was supported by The Pew Center for Arts & Heritage.





The River Feeds Back Sound Artists, Liz Phillips and Annea Lockwood

This project has been over 10 years from conception to realization. As two lifetime nature walk listeners, recorders and responsive artists of over 60 years, we think the Schuylkill River was perhaps the most surprising and exciting to hear. The high flickers of insects and frogs from upriver mix with on-location underwater sounds. The most musical air bubbles rise in near and far space across the river from plants releasing oxygen when the tide is low. Fish echolocate, jump and can be heard roaming in schools, waiting for the fish ladders to become accessible, the tides to rise. It teems with life!

”

*We are deeply grateful
for this opportunity to celebrate
water and the importance of the
Schuylkill River to Philadelphia.*

— Annea Lockwood, Sound Artist



Designing the Future with Student-led Innovation

With the launch of the Museum Innovation Fund this year, an initiative that supports exciting, interdisciplinary projects by Drexel's faculty and students, the Academy is creating new, futuristic ways to approach museum learning and engagement.



Through this initiative, the Academy is establishing an open innovation culture — one that promotes prototyping, nurtures fresh thinking and encourages purposeful experimentation.



To do this, the Academy provides seed grants to select projects that creatively apply art, science and engineering to the reimagination of the museum experience.

Program Director and Assistant Professor Raja Schaar, at Drexel's Westphal College of Media Arts and Design, was among the first awardees with the class project "Dioramas of the Future."

Schaar's experience captures the powerful cross-functional capacity of just a single seed-grant project. In collaboration with numerous Westphal professors working across programs — including Product Design, User Experience and Interaction Design as well as Digital Media and Virtual Production — this project presented student-generated ideas to both spark conversation and inspire different ways of exploring the Academy's dioramas.

"Our students were excited to conceptualize and prototype a range of ideas," Schaar said, "from mobile applications to interactive kiosks, projections and exhibition furniture that took advantage of augmented and virtual reality technologies to bring the museum to life."



Other awarded projects include public demonstrations of green water infrastructure with local middle school students and developing solutions to plastic pollution in Philadelphia's rivers with the College of Engineering.

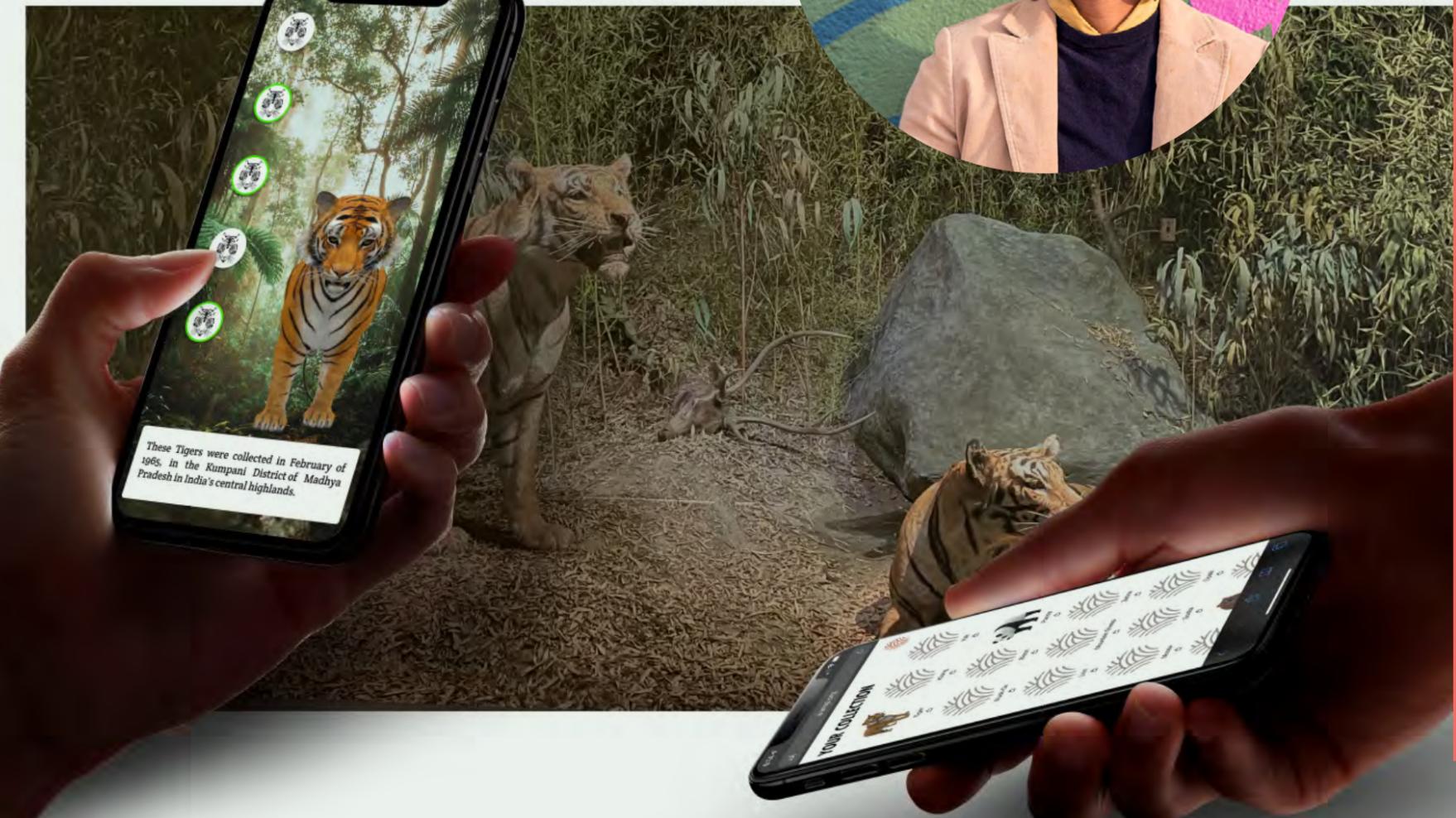
The Academy's collections and dioramas provide insights into the past and present — our programs offer glimpses of the future.



Raja Schaar

Program Director and Assistant Professor
in Product Design at Drexel University

Our goal was to use technology to augment the museum experience and inspire immersive engagement with the exhibitions. It was an opportunity to reengage our students with Drexel's larger community, emerging technology and themes related to climate change. It's an exciting time to explore technology's relationship to traditional forms of storytelling in museums and interpretive spaces.



A FORCE FOR NATURE™

**WE
SOLVE
PROBLEMS**



Launch of The Environmental Collaboratory

The world is facing countless environmental emergencies and there is no single fix. From confronting the challenges of climate change to addressing freshwater access and pollution, a radically new approach is needed.

WE SOLVE PROBLEMS



One that can connect the diverse skills of subject-matter experts to the local knowledge and lived experiences of impacted communities. One that not only solves environmental problems, but also addresses the values and beliefs that have led to them in the first place.



Launched this year by the Academy and Drexel University, The Environmental Collaboratory is a groundbreaking interdisciplinary research and civic engagement platform that will meet these needs by uniting communities, academics, corporations, nonprofits and government agencies in a shared endeavor to identify environmental issues, co-generate user-inspired research and implement practical solutions in service of a fundamentally more equitable planet.



And The Environmental Collaboratory's work has already begun. Grants have been awarded to multiple projects with new community-centered approaches, such as addressing the impacts of lead within West Philadelphia's homes, mitigating the city's air pollutants and their sources, documenting environmental injustice through film and developing climate change policies with data.

"We cannot solve these environmental problems with a myopic view of what a solution looks like," said The Environmental Collaboratory's Executive Director Mathy Vathanaraj Stanislaus. "I think everyone, in whatever field that they're in, must see themselves in this incredibly important work, because these solutions require multiple disciplines and backgrounds."

The Environmental Collaboratory is truly forging new and collaborative territory.

New Leadership at the Academy

With diverse and world-class experience, four new individuals have been welcomed to the Academy this year, further unlocking the institution's extraordinary potential as a force for nature.



Pedro Raposo

**Martha Hamilton and I. Wistar Morris III
Executive Director, Library and Archives**

An academic with a doctorate from the University of Oxford as well as a seasoned library and archives professional, Raposo — who joins us from the renowned Adler Planetarium in Chicago — harnesses the power of a collection's immense potential for storytelling through his expansive vision and passion for public engagement, science and history. He is also a gifted guitarist.

"I am thrilled to be part of the Academy — a wondrous place hosting world-class collections, research and exhibits as well as public and community engagement programs, where I get to work with an incredibly talented and dedicated team. Our Library and Archives offer endless clues and pathways to better understand how the natural and environmental sciences have evolved over the centuries, at the Academy and beyond. As we welcome new perspectives and multiple voices, our rare books, historical documents, works of art and many other library and archival materials are sure to provide a multitude of informative, surprising and thought-provoking stories that can inspire positive change. Helping unveil those stories and share them with the world is what gets me pumped to come to work every day."



Kim Reynolds

Executive Director, Institutional Advancement

From Florence to Philadelphia, from communications to advancement, from for-profit to non-profit, and finally from art to nature, Reynolds's remarkably diverse career arc — including most recently her work in development at the Brandywine Conservancy & Museum of Art — has centered on creating meaningful, long-lasting connections that result in significant mission-aligned support. An avid gardener and amateur paleontologist, she is happiest when up to her elbows in dirt.

"I'm honored to have joined the talented and dedicated team at the Academy of Natural Sciences. Science matters, acting now on behalf of our planet matters, and it is an incredible feeling to know that the work I do truly matters. Together, with my amazing colleagues, we are creating an impact, making a positive difference, supporting our scientific research and world-class collections and ultimately helping our communities connect to the wonder of nature all around us."



Marina McDougall

Vice President, Experience and Engagement

A pioneering informal educator with experience forged at San Francisco's renowned Exploratorium, McDougall brings to the Academy a rich vision for interdisciplinary and participatory programming that advances our understanding of science through the innovative use of both the arts and humanities. A trustee of the Museum of Jurassic Technology, she also loves dinosaurs.

"I'm thrilled to join the Academy at this exciting juncture. Over the last year, we have made substantial progress toward manifesting the new vision for intergenerational public experience at the Academy which calls for meaningful approaches such as bringing the Academy's astounding scientific research, collections and libraries and archives to the fore; integrating the arts and humanities into our programming; collaborating with community partners through co-creation; working closely with Drexel faculty and students; and giving voice to a diversity of perspectives. It's a joy to work with so many amazing people to meet the new possibilities and complexities of our times in dynamic ways."



Maurice Baynard

Vice President, Community Learning

With a scholarly background in deep-rooted and wide-ranging scientific interests, a passion for STEM education and a groundbreaking experience as the first director of diversity, equity and inclusion at the University of the Arts, Baynard brings a true sense of community-centered and impact-focused innovation to the Academy. He is also co-producer and host of The 10,000 Hours podcast.

"Quite simply, this is the opportunity of a lifetime. I've spent a career in laboratories and lecture halls, building programs to increase the flow of great and curious minds in the playground-to-PhD pipeline. Our Community Learning Division here at the Academy offers me the opportunity to bring all these experiences to bear with a single amazing team of folks. The Academy is truly a learning environment and institution of inquiry where all members of the community have full access to the knowledge and research that addresses our collective vital concerns and illuminates our complex environment. It is full of people who are passionate and have such knowledge about what they do every day and I think it's rare to find a place where you love every conversation you have at work."

Board of Trustees

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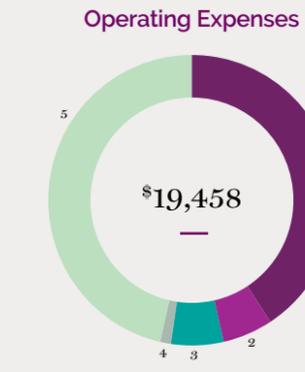
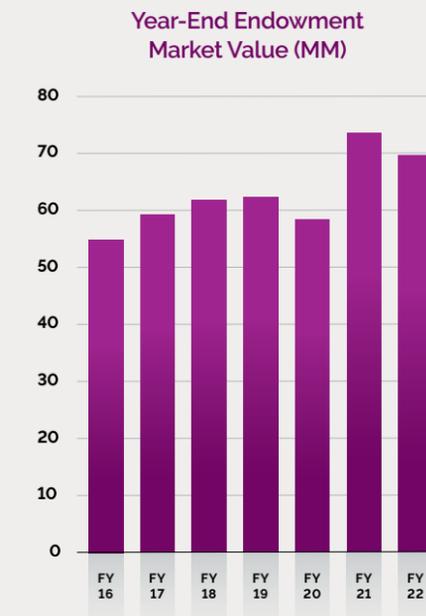


Statement of Activities

For the Year Ended June 30, 2022 (in thousands)

Endowment Growth (in millions)

Year	Jun 30	Value
2022	Jun 30	69.154
2021	Jun 30	73.266
2020	Jun 30	58.758
2019	Jun 30	61.880
2018	Jun 30	62.198
2017	Jun 30	59.741
2016	Jun 30	55.032



The groundbreaking academic department, **Biodiversity, Earth & Environmental Science (BEES)**, formed upon the affiliation of the Academy and Drexel University, had a full-time equivalent enrollment of 187 students in the 2021-2022 academic year.

Operating Revenues and Releases	Without Donor Restrictions	With Donor Restrictions	Total
1. Grants and Contracts	\$4,263	\$2,151	\$6,414
2. Contributions	1,398	1,969	3,367
3. Allocations of Endowment Spending from Financial Capital	684	3,058	3,742
4. Investment Income, Net	354	17	371
5. Auxiliary Enterprises	1,407	-	1,407
6. Other Income	6,160	6	6,166
Total Revenues	\$14,266	\$7,201	\$21,467
Net Assets Released from Restriction	5,301	(5,301)	-
Total Revenues and Releases	\$19,567	\$1,900	\$21,467

Operating Expenses

1. Salaries and Wages	\$7,384	-	\$7,384
2. Employee Benefits	1,758	-	1,758
3. Depreciation and Amortization	1,347	-	1,347
4. Interest	2	-	2
5. Other Operating Expenses	8,967	-	8,967
Total Expenses	\$19,458	-	\$19,458
Increase in Net Assets from Operating Activities	109	1,900	2,009

Non-operating

Contributions - Endowment and Other Gifts	\$58	\$1,020	\$1,078
Realized/Unrealized Net Gain (Loss) on Investments, Net of Endowment Payout and Expenses	(140)	(6,671)	(6,811)
Change in Funded Status of Defined Benefit Plan	1,066	-	1,066
Increase / (Decrease) in Net Assets from Non-operating Activities	984	(5,651)	(4,667)
Total Increase / (Decrease) in Net Assets	1,093	(3,751)	(2,658)
Net Assets, Beginning of Year	\$5,727	\$90,161	\$95,888
Net Assets, End of Year	\$6,820	\$86,410	\$93,230

Thank You

On behalf of the Academy's Board of Trustees, we wish to recognize and thank those supporters who contributed to the Academy between July 1, 2021 and June 30, 2022.

Your generosity helps to fund the Academy's scientific research and education programs, and we are tremendously grateful. Because of your steadfast support of the Academy, our science never stops.

\$1,000,000 and Up

Estate of Beverly Hattersley
Martha H. and I. Wistar Morris III

\$200,000 to \$999,999

Anonymous
The Arcadia Foundation
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♦ Deceased

\$25,000 to \$49,999

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\$10,000 to \$24,999

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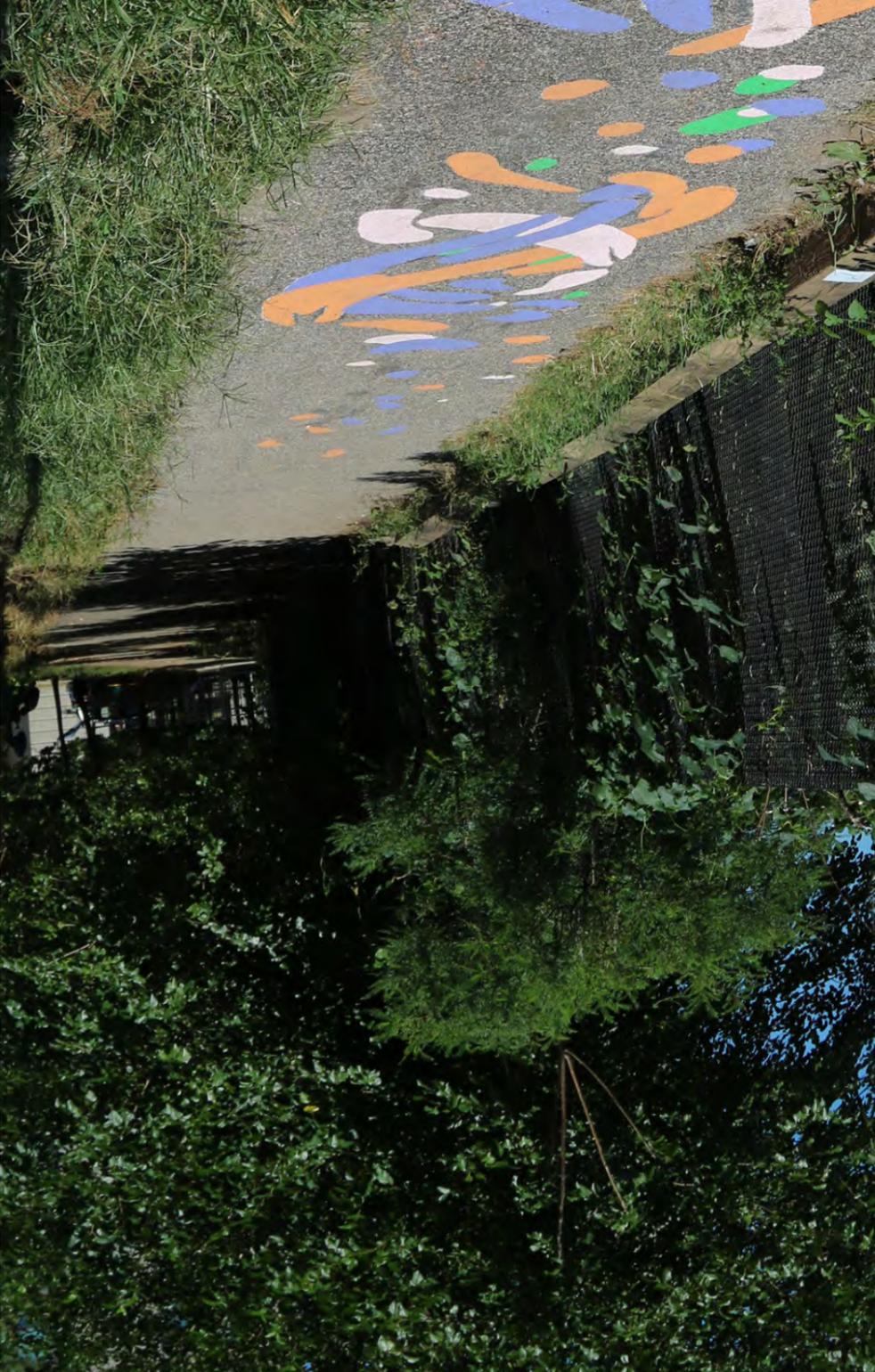
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Dear Friends,

As you reviewed our annual report, and absorbed the selected stories of our year, we hope you were left with a sense of the dedication, commitment and excitement that courses through the Academy, as well as an appreciation for the significant and growing impact this remarkable institution continues to have around the world.

In showcasing the extraordinary achievements of Professor Otte, we hope that our report conveyed the outsized influence of the Academy's Center for Systematic Biology and Evolution as it advances global understanding of the natural world.

In celebrating 75 years of the Patrick Center for Environmental Research, we hope you were struck by its legacy of innovation as well as the role it continues to play in building resilient communities through its world-class research and science-based advocacy.

In highlighting Black Birders Week, we hope that the Academy's deep commitment to becoming an institution that is of, by and for *all* those it serves shone through, as it continues to co-create powerful programs that democratize science and build a truly inclusive movement of environmentally engaged communities for a healthy, sustainable and equitable planet.

In outlining the successes of Water Year, we hope you were excited by the pioneering ways in which the Academy is championing new modes of science communication, devising fresh approaches to campus engagement and implementing compelling initiatives that create awareness, build understanding and, crucially, inspire action.

And finally, by introducing The Environmental Collaboratory, we hope that the Academy's ambition to innovate participatory research, drive community engagement and unlock the rich potential of its relationship with Drexel University is one that inspired you as much as it does all of us.

With our world-class scientists, educators and staff supported by an ever-strengthening leadership team, 2022 proved to be an outstanding year. But it wouldn't have been possible without you — our dedicated donors, members, visitors, volunteers and supporters.

Thank you for investing in the Academy and for helping us to better understand the natural world and inspire *everyone* to care for it.



A white ink signature of Scott Cooper, consisting of a stylized 'S' followed by a long, horizontal flourish.

Scott Cooper
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A white ink signature of David E. Griffith, written in a cursive, handwritten style.

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