



OPEN SESSION

1. Convene Meeting
David L. Boliek Jr., Chair
2. Roll Call
Malcolm Turner, Secretary
3. National Anthem
Taylor Loyd, Junior, B.A. Psychology & B.A. Music with a Classical Voice concentration.
4. Statement of Ethics
David L. Boliek Jr., Chair
5. Consent Agenda
 - Approval of January 27, 2022 Minutes (Regular Meeting) Attachment A
 - Approval of Revised 2022 BOT Meeting Dates Attachment B
 - Ratification of Written Ballot dated March 3, 2022 Attachment C
 - Ratification of Written Ballot dated March 3, 2022 Attachment D
 - All-Funds Budget Model
 - Budget, Finance, & Infrastructure Items 2, 3, 4, 5, 6
6. Board of Trustees Chair's Remarks
David L Boliek Jr., Chair
7. Student Body President's Remarks
Lamar Richards, Student Body President
8. Chancellor's Remarks
Dr. Kevin Guskiewicz, Chancellor
9. Presentation on the Winston Center
Mitch Prinstein, Seters Distinguished Professor of Psychology and Neuroscience and Chief Scientific Officer at the American Psychological Association; Co-Director of the Winston Center
Eva Telzer, Associate Professor of Psychology and Neuroscience; Co-Director of the Winston Center
Nathan Field, PhD student, Department of Psychology and Neuroscience
Kara Fox, PhD student, Department of Psychology and Neuroscience
Maria Maza, PhD student, Department of Psychology and Neuroscience
10. Presentation on N.C. Policy Collaboratory
Jeff Warren, Adjunct Professor of the Practice and Executive Director, N.C. Policy Collaboratory

11. *Report of the Audit, Compliance, and Risk Management Committee
Marty Kotis, Committee Chair
12. *Report of the Budget, Finance, and Infrastructure Committee
John Preyer, Committee Chair
13. *Report of the University Affairs Committee
Rob Bryan, Committee Chair
14. *Report of the External Relations Committee
Allie Ray McCullen, Committee Chair
15. *Report of the Strategic Initiatives Committee
Perrin Jones, Committee Chair

CLOSED SESSION

16. *Report of the External Relations Committee
Allie Ray McCullen, Committee Chair
17. *Report of the University Affairs Committee
Rob Bryan, Committee Chair
18. Legal Update
Charles Marshall, Vice Chancellor and General Counsel
19. Student Appeal
Kara Simmons, Associate Vice Chancellor & Senior University Counsel
20. Executive Session
David L. Boliek Jr., Chair

OPEN SESSION

21. Adjournment
David L. Boliek Jr., Chair

CLOSED SESSION MOTION
FOR FULL BOARD MEETING
THURSDAY 03/24/2022

Mr. Chairman, I move that the Board convene in closed session pursuant to North Carolina General Statutes Section 143-318.11 (a) (1) (to prevent the disclosure of privileged information under Section 126-22) and also pursuant to Section 143-318.11 (a)(2) (to prevent the premature disclosure of an honorary degree, scholarship, prize, or similar award), (a)(3) (to consult with an attorney employed or retained by the public body in order to preserve the attorney-client privilege between the attorney and the public body), (a)(6) (to consider the qualifications, competence, performance, or condition of appointment of a public officer or employee or prospective public officer or employee), (a)(7) (to plan, conduct, or hear reports concerning investigations of alleged criminal misconduct).

BOARD OF TRUSTEES MEETING
The University of North Carolina at Chapel Hill
January 27, 2022

The Board of Trustees met in regular session on Thursday, January 27, 2022 at the Magnolia Room, Rizzo Conference Center. Chair Boliek reconvened the full Board meeting at 9:05 a.m.

ROLL CALL

Secretary Malcolm Turner called the roll and the following members were present:

Teresa Artis Neal	Allie Ray McCullen
David L. Boliek, Jr., Chair	Ralph W. Meekins, Sr.
Rob Bryan	Vinay Patel
R. Gene Davis, Jr.	John P. Preyer, Vice Chair
Dr. Perrin Jones	Malcolm K. Turner, Secretary
Marty Kotis	Ramsey White

Secretary Turner indicated that there was a quorum.

ELECTION OF OFFICER

Chair Boliek requested the motion to elect Christopher Douglas McClure as the University's Assistant Secretary to the Board of Trustees. Trustee Bryan made the motion and seconded by Trustee McCullen. The motion passed.

STATE GOVERNMENT ETHICS ACT

Chair Boliek read the following statement:

As Chair of the Board of Trustees, it is my responsibility to remind all members of the Board of their duty under the State Government Ethics Act to avoid conflicts of interest and appearances of conflicts of interest as required by this Act. Each member has received the agenda and related information for this Board of Trustees' meeting. If any Board member knows of any conflict of interest or appearance of conflict with respect to any matter coming before the Board of Trustees at this meeting, the conflict or appearance of conflict should be identified at this time.

CONSENT AGENDA

The following items were presented for approval on the consent agenda:

- Approval of November 3-4, 2021 Minutes (Regular Meeting)
- Approval of December 9, 2021 Minutes (Special Meeting)
- Approval of December 14, 2022 Minutes (Emergency Meeting)
- Approval of Revised 2022 BOT Meeting Dates

(ATTACHMENTS A-D)

Chair Boliek made a motion to approve the consent agenda. Trustee Richards seconded and the motion passed.

BOARD OF TRUSTEE CHAIR'S REMARKS

- Chair Boliek began his remarks by welcoming Board of Governors member, David Powers to the meeting and requested that Governor Powers share brief remarks with the Board and guests.
 - Governor Powers thanked Chair Boliek and the Board for the welcome and shared comments on issues the Board of Governors are focused on, such as addressing the challenges related to Covid-19 and the financial challenges facing smaller system schools as they prioritize keeping tuition and fees low cost.
- Chair Boliek shared that Covid-19 has continued to be a concern and top priority to the Board. Chair Boliek stated that approximately 90% of classes were being conducted in-person on campus and he expressed gratitude and admiration to the university's faculty for their work and commitment to their students.
- Chair Boliek thanked Trustee Kotis and Board Secretary Turner for leading the new Audit, Compliance, and Risk Management committee.
- The Chair thanked and congratulated all who have supported and worked to develop the all-funds budget model that will come to the Board for approval.
- The Chair shared recent funding allocated to the university by the State that will support several academic programs, departments, and facility renovations.
- The Chair referenced a presentation by Chancellor Guskiewicz and Executive Vice Chancellor and Provost elect Chris Clemens on the School of Data Science and Society and expressed his support for the program as well as his hope that it will aid the university in producing a capable workforce for the state with the increasing emphasis on technology.
- The Chair stated that the Strategic Initiative Committee is supporting faculty development of a leadership program available to all students on campus regardless of their area of study. Several leadership programs exist on campus, but the Board is encouraging and working to support leadership training for all UNC students. The Chair thanked Trustee Jones for chairing the committee.
- The Chair shared his excitement for Dr. Chris Clemens' official onboarding as the University's Executive Vice Chancellor and Provost in February and the active dean searches for the School of Journalism, School of Dentistry, School of Public Health, School of Pharmacy, and College of Arts and Sciences.
- The Chair concluded his remarks by emphasizing that the Board of Trustees is a working board and that every member is serving on committees and working groups to move forward the university's mission and support students. The Chair thanked the Board for their service. The Chair thanked Student Body President Lamar Richards for his service and commends his commitment to serving as a Trustee, succeeding in the classroom, and conducting his fellowship in Washington D.C.
- The Chair called upon Chancellor Kevin Guskiewicz to give his remarks.

[A copy of these remarks is in the Office of the Assistant Secretary and at bot.unc.edu]

CHANCELLOR'S REMARKS

- Chancellor Guskiewicz began his remarks by thanking everyone for their attendance and congratulated the Men's Basketball team on their recent win.
- The Chancellor acknowledged the resiliency of the campus community through these challenging times and is thankful for the strong start to the Spring 2022 semester.

- The Chancellor thanked Amir Barzin for his Covid-19 update to the Audit, Compliance, and Risk Management committee, as well as the members of Dr. Barzin's team for their hard work as new variants have emerged.
- The Chancellor briefly acknowledged and thanked Executive Vice Chancellor and Provost Bob Blouin for his leadership and service to the university. The Board of Trustees plans to formally acknowledge him at a meeting later this year.
- The Chancellor congratulated Dr. Chris Clemens as he begins his new role as Executive Vice Chancellor and Provost in February. Dr. Clemens has been with the university since 1988 and is committed to advancing opportunities for faculty, staff, and students.
- The Chancellor thanked Chris McClure for his work as Chief Strategy officer and is confident he will succeed as the Assistant Secretary to the Board.
- The Chancellor thanked Dr. Amy Hertel, Chief of Staff and wished her well in her new role of Executive Vice Provost. The Chancellor also thanked Dr. Christi Hurt as she transitions into the role of Chief of Staff and looks forward to working alongside her.
- The Chancellor shared recent highlights since the November meeting: the University is ranked 5th among public universities for the 21st consecutive year by U.S. News and World Report, ranked 3rd among public universities by the Wall Street Journal rankings, and climbed to 10th place overall for best value and maintained our top ranking as the best value for public universities for the 17th consecutive year.
- The Chancellor referenced that three UNC Students were announced as Rhode Scholars; the highest number the university has had in a single year.
- The Chancellor noted that the Board of Trustees approved the building naming of Henry Owl Hall and Hortense McClinton Hall.
- The Chancellor also noted that the Carolina Covenant team announced that it won a \$250,000 grant from the Strata Education Network to enable them to expand career development services for Covenant Scholars.
- The Chancellor stated that Vice Chancellor David Routh presented yesterday to the External Relations Committee that they recently passed the \$4.25 billion milestone in the campaign.
- The Chancellor thanked the Board for their support in advocating for this funding, but also the partnership and ensuring that good stewardship of the funding that we can from the General Assembly.

[A copy of these remarks is in the Office of the Assistant Secretary and at bot.unc.edu]

RESEARCH ENTERPRISE AT UNC

Chancellor Guskiewicz introduced Dr. Terry Magnuson, Vice Chancellor for Research and Weatherspoon Distinguished Professor of Genetics, Dr. Lindsey James, Assistant Professor at the School of Pharmacy, and Dr. Gerald Meyer, Director of Center for Hybrid Approaches in Solar Energy to Liquid Fuels, Professor in the Department of Chemistry. Dr. Magnuson began their presentation by highlighting two major research programs at the university that will be presented by Dr. James and Dr. Meyer. Before handing it over to his fellow presenters, Dr. Magnuson discussed the economic impact of UNC's research enterprise on the state of North Carolina, stating that in fiscal year 2020 there was a total of \$1.6 billion dollars in research expenditures, which employed 10,420 employees, paid \$386 million in salaries, and \$96 million in purchases

from 3500 North Carolina business in 89 different counties. Dr. Magnuson highlighted the discovery to development to market process in the university's research enterprise.

Dr. James presented the Translational Research Towards New Cancer Therapeutics research program.

Dr. Meyer presented the Center for Hybrid Approaches in Solar Energy to Liquid Fuels (CHASE) research program.

To conclude their presentation, they entertained questions from the board. This presentation can be found on bot.unc.edu and on file in the Office of the Assistant Secretary.

AMENDMENT

Chair Boliek requested to amend his remarks that there is not an active dean search for the School of Pharmacy. Chair Boliek shared that Trustee Richards requested to not give remarks as Student Body President at the January 2022 meeting.

REPORT OF THE AUDIT, COMPLIANCE, AND RISK MANAGEMENT COMMITTEE

Trustee Kotis presented a review of the Audit, Compliance, and Risk Management Committee meeting. There were no action items for this committee in open session. Trustee Kotis shared the items presented for information:

- Internal Audit Report given by Dean Weber
- Police Chief Update given by George Battle
- Covid-19 Response Update by Amir Barzin

A full review of the committee meeting is in the committee minutes in the Office of the Chancellor.

REPORT OF STRATEGIC INITIATIVES COMMITTEE

Trustee Jones presented a review of the Strategic Initiatives Committee meeting. There were no action items for this committee in open session. Trustee Kotis shared the items presented for information:

- Strategic Plan Update given by Chancellor Kevin Guskiewicz
- Carolina Leadership Initiative given by Mark McNeilly

A full review of the committee meeting is in the committee minutes in the Office of the Chancellor.

REPORT OF THE FINANCE, INFRASTRUCTURE, & AUDIT COMMITTEE

Trustee Preyer presented the report from the Finance, Infrastructure, and Audit Committee. The following items were presented to the committee for action.

Spending Authority – Taylor Hall BSL-3 Autoclave Replacement

The scope of this project is to replace an aged front load autoclave in the Taylor Hall high containment lab with a pass-through type autoclave. This replacement will require modifications to the interior walls of the lab and associated plumbing, mechanical, and electrical systems. This project was initially approved for delegated spending authority of \$497,047 in March 2021.

Since then, the cost of the project has increased for two reasons: (i) minor unforeseen conditions during initial scoping of the project, and (ii) changes in market conditions as reflected in the bids received in December 2021.

(ATTACHMENT E)

Advance Planning Spending Authority – Porthole Alley Redevelopment

The scope of this project is to redevelop the parcels around Porthole Alley, including the buildings 128, 134, and 144 East Franklin Street and the Porthole Building. Based on a preliminary site capacity study, the 144 East Franklin building, also known as the Hill Commercial Building, would be renovated, while the other buildings would be demolished and redeveloped with roughly 125,000 gross square feet of new construction. The resulting project would maintain and expand retail opportunities facing Franklin Street, create a new home for Undergraduate Admissions and the Visitor Center, student meetings and maker space, and office space for University or third-party tenancies.

(ATTACHMENT F)

Design Approval – Kenan Football Center Addition Design

The scope of this project is to renovate and expand the Frank H. Kenan Football Center, which houses the operational needs of the Carolina Football Program including locker rooms, weight room, training room, equipment room, players' lounge, study areas, coaches' offices, and player meeting rooms.

(ATTACHMENT G)

Property Donation – Phillips Island

Gordon Merklein, Associate Vice Chancellor for Real Estate and Campus Enterprises presented on the property donation of Phillips Island to the Institute of Marine Sciences.

(ATTACHMENT H)

A motion came from Trustee Preyer to approve these action items. Trustee Davis seconded, and they passed.

Trustee Preyer continued and shared the items for information only:

- Budget Update
- Review of Comprehensive Annual Financial Report
- 2021-23 Capital Program Update
- Preliminary Design Review
 - Cone Kenfield Tennis Center
 - Finley Golf Course

The following items were presented for additional review:

- Budget Update
- Semi-annual Lease Report
- Semi-annual Capital Improvement Projects Report

A full review of the committee meeting is in the committee minutes in the Office of the Chancellor.

REPORT OF THE UNIVERSITY AFFAIR COMMITTEE

Trustee Bryan presented a review of the University Affairs Committee meeting. There were no action items for this committee in open session. Trustee Bryan shared the items presented for information:

- Employee Forum Update given by Katie Musgrove
- Graduate and Professional Student Federation Update given by Neel Swamy
- SAAO Tier II Approvals Process given by Becci Menghini
- Update on Data Science Initiative given by Chancellor Kevin Guskiewicz, Executive Vice Chancellor and Provost Elect Chris Clemens, and Jay Aikat

A full review of the committee meeting is in the committee minutes in the Office of the Chancellor.

REPORT OF THE EXTERNAL RELATIONS COMMITTEE

Trustee McCullen presented a review of the External Relations Committee meeting. There were no action items for this committee in open session. Trustee McCullen shared the items presented for information:

- Development Update given by David Routh
- University Communications Update given by Beth Keith and Tanya Moore
- Legislative Update given by Chris McClure and Kelly Dockham

A full review of the committee meeting is in the committee minutes in the Office of the Chancellor.

MOTION TO CONVENE IN CLOSED SESSION

On motion of Secretary Turner, and seconded by Trustee Artis Neal, the Board voted to convene in closed session pursuant to North Carolina General Statutes Section 143-318.11 (a) (1) (to prevent the disclosure of privileged information under Section 126-22 and the following); and also pursuant to Section 143-318.11 (a) (2), (3), (5), (6), (7), and (9).

RECONVENE MEETING IN OPEN SESSION

Secretary Turner made a motion to return to open session. Trustee Artis Neal seconded, and it passed.

OPEN SESSION

REPORT OF UNIVERSITY AFFAIRS COMMITTEE

Trustee Bryan referred members to the November Human Resource and personnel items submitted for action. Trustee Bryan made a motion to approve the items. Trustee Davis seconded, and it passed.

ADJOURNMENT

There being no further business to come before the Board, Chair Boliek called for a motion to

adjourn. Trustee Davis made the motion; Trustee White seconded, and it passed. Chair Boliek adjourned the meeting at 1:08pm.



Mail Ballot
Board of Trustees
March 3, 2022

Chancellor Kevin Guskiewicz submits for your review and approval the terms of appointment and compensation for Raul Reis as Dean of the Hussman School of Journalism and Media. This mail ballot will be approved as part of the consent agenda at the Full Board meeting on Thursday, March 24, 2022.

The undersigned votes as follows with recommendation to these proposed actions as presented by the Chancellor.

	Approve	Disapprove
Appointment and compensation for Raul Reis as Dean of the Hussman School of Journalism and Media	<input type="checkbox"/>	<input type="checkbox"/>

Signature _____

Printed Name _____

Date _____

Please fax to Chris McClure at (919) 962-1647 or email at **chris_mcclure@unc.edu**

Mail Ballot
Board of Trustees
March 3, 2022

Chancellor Kevin Guskiewicz submits for your review and approval the Honorary Degree Nominations. This mail ballot will be approved as part of the consent agenda at the Full Board meeting on Thursday, March 24, 2022.

The undersigned votes as follows with recommendation to these proposed actions as presented by the Chancellor.

	Approve	Disapprove
Hilda Lucia Solis	<input type="checkbox"/>	<input type="checkbox"/>
	Approve	Disapprove
Frank A. Bruni	<input type="checkbox"/>	<input type="checkbox"/>
	Approve	Disapprove
Millie Ravenel	<input type="checkbox"/>	<input type="checkbox"/>
	Approve	Disapprove
Algenon L. Marbley	<input type="checkbox"/>	<input type="checkbox"/>

Approve

Disapprove

Edward Calvin Smith

☐☐

Signature_____

Printed Name_____

Date_____

Please fax to Chris McClure at (919) 962-1647 or email at chris_mcclure@unc.edu

MEMORANDUM

To: Members of the Board of Trustees

From: David Boliek, Chair

Date: March 15, 2022

RE: Revised 2022 Meeting Dates

Due to conflicts, the September 2022 BOT meetings need to be rescheduled. Please see below the updated 2022 meeting dates for approval.

March 23 – 24

May 18 –19

July 27 – 28

Revised to September 29 – 30 (Previously September 28-29)

November 9 – 10



Winston National Center on Technology Use, Brain, and Psychological Development

Eva Telzer, Associate Professor
Mitch Prinstein, Distinguished Professor
Department of Psychology and Neuroscience

March 2022 Board of Trustees Meeting



Quick
reminder:

An existential crisis

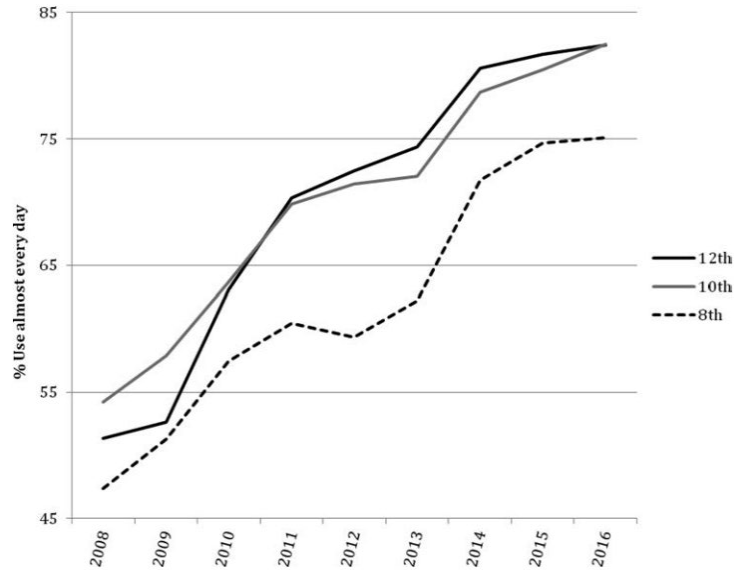


Figure 4. Percent of 8th, 10th, and 12th graders who use social media sites almost every day, 2008–2016.

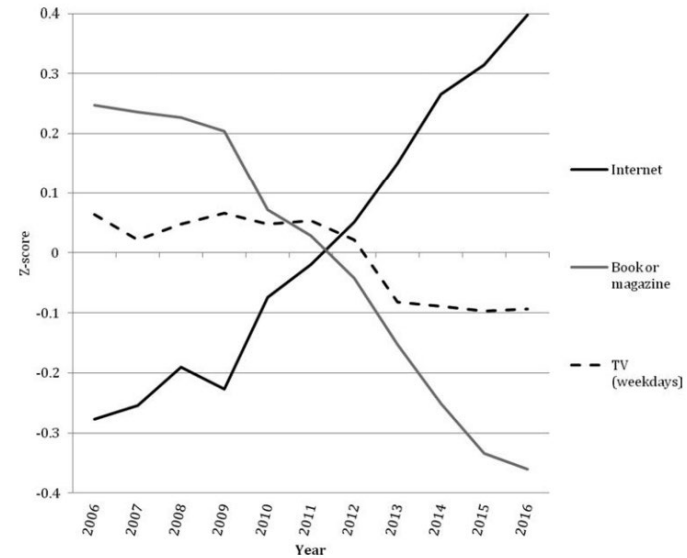
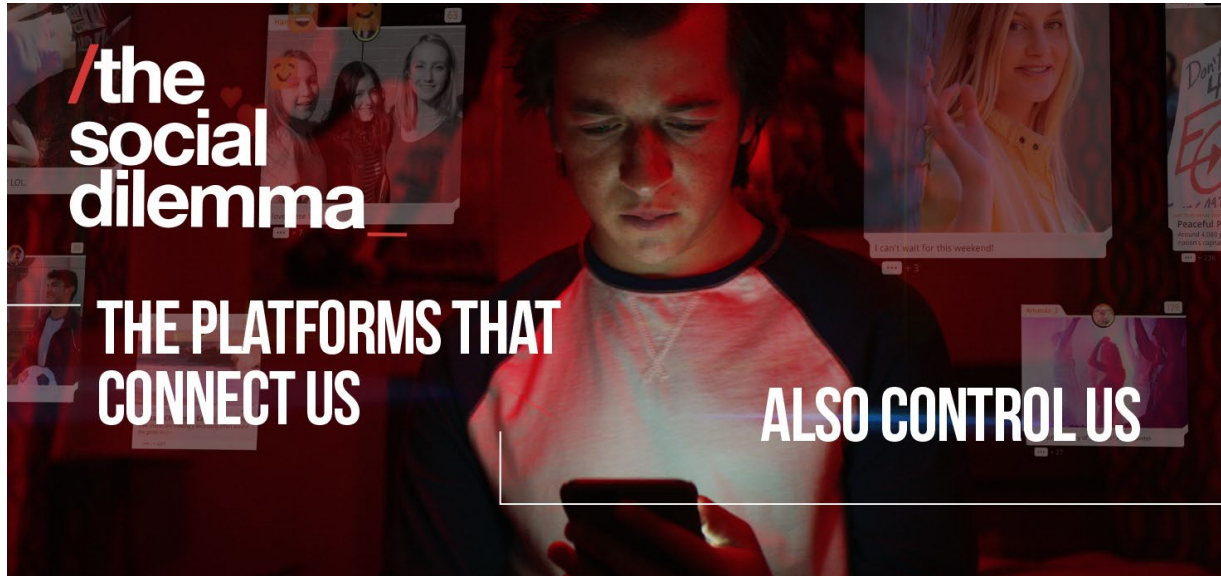


Figure 11. Internet use, book or magazine reading, and TV viewing on weekdays (Z-scored), 12th graders, 2006–2016.

An Urgent National Priority

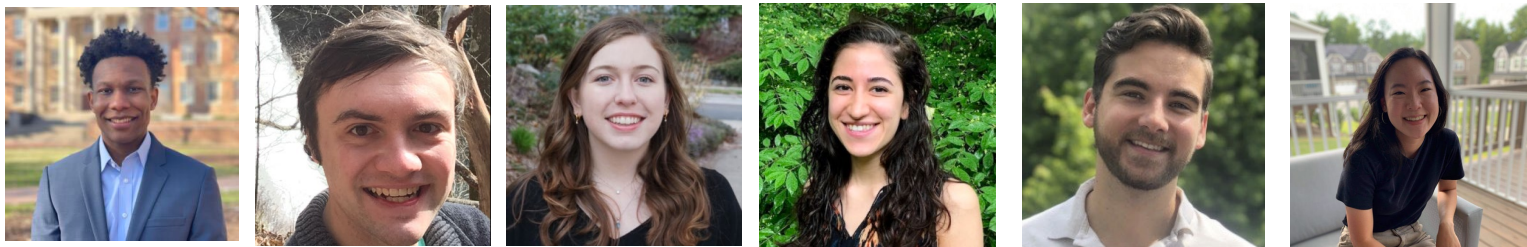


WiFiTeam and Scientist Pipeline

Core Team, Doctorates and Masters-Level



Doctoral Level Graduate Students



Post-Baccalaureate Research Assistants





Curriculum

Undergraduate Course

Primary/Secondary
Schools



Dissemination

Website

Handbook



Research

Cohort of scholars

Novel research

fMRI work

Curriculum



PSYC 180: Social Media, Technology, & the Adolescent Brain

- 4 semesters, 6 sections, ~800 students enrolled
- Enrolled super-fast
- Unique participation/engagement
- Teaching accolades for top evaluations in department





Dissemination

www.TeensAndTech.org



TEENS&TECH

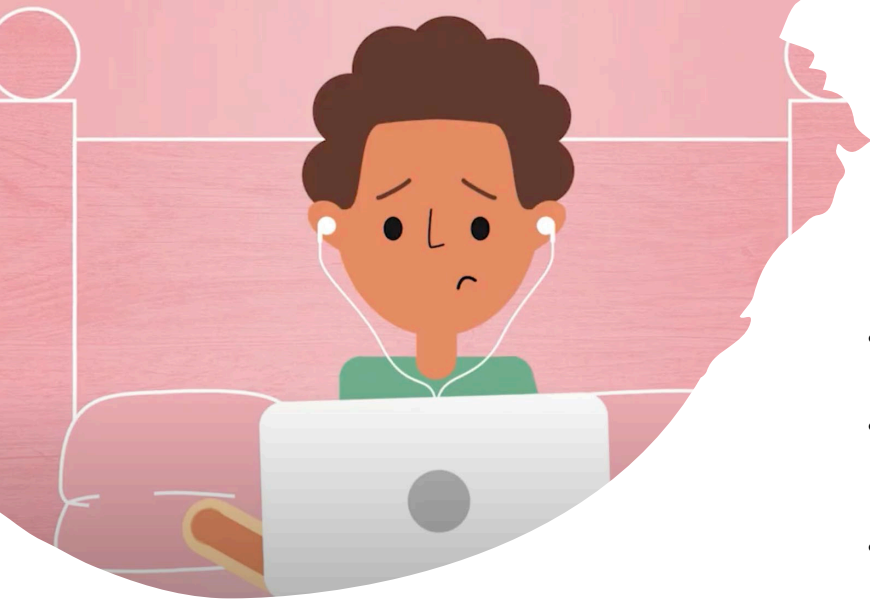
WINSTON FAMILY INITIATIVE
IN TECHNOLOGY AND
ADOLESCENT BRAIN DEVELOPMENT

[ABOUT US](#) [THE LATEST SCIENCE](#) [FOR EDUCATORS](#) [VIDEOS](#) [RESOURCES](#)

Studying how the use of technology and social media impact teen relationships,
behavior, and well-being



Over 10,000 hits in first three weeks

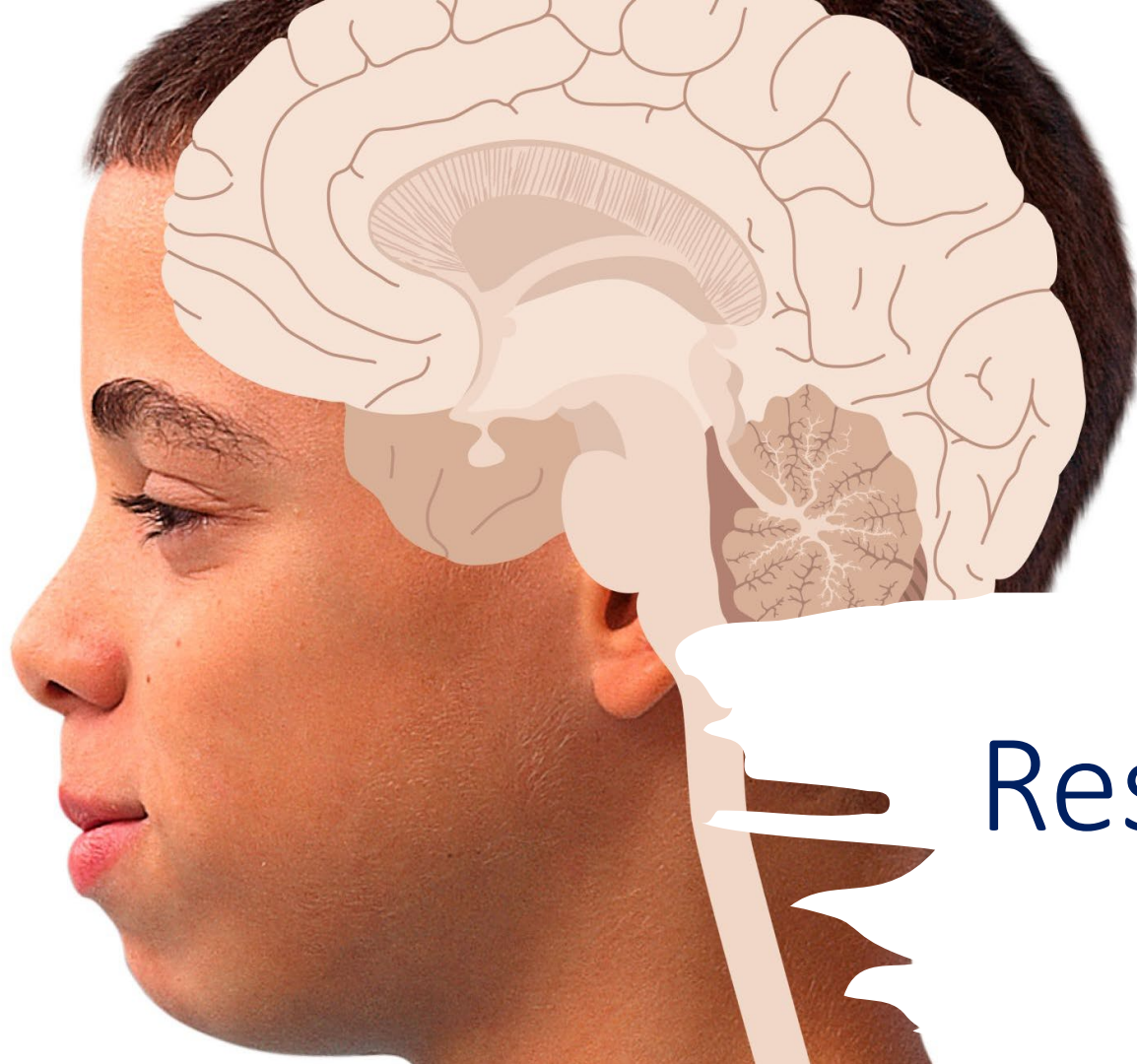


Handbook of Adolescent Digital Media Use and Mental Health

- Conceptual and methodological issues in digital media research
- Theoretical foundations: Media effects and computer-mediated communication
- Theoretical foundations: Developmental psychopathology in the age of social media
- Peer relations processes in the context of digital media
- Adolescent brain development in the context of digital media
- Gender, sex, and digital media
- Culture and digital media
- Underserved populations and digital media
- Depression and Anxiety
- Body Image and Eating Disorders
- Health-Risk and Externalizing Behaviors
- Problematic Digital Media Use and Addiction
- Attention problems, media multitasking, and sleep
- Suicide and self-injury
- School-based initiatives promoting healthy digital media use
- Digital media interventions for adolescent mental health



CAMBRIDGE
UNIVERSITY PRESS



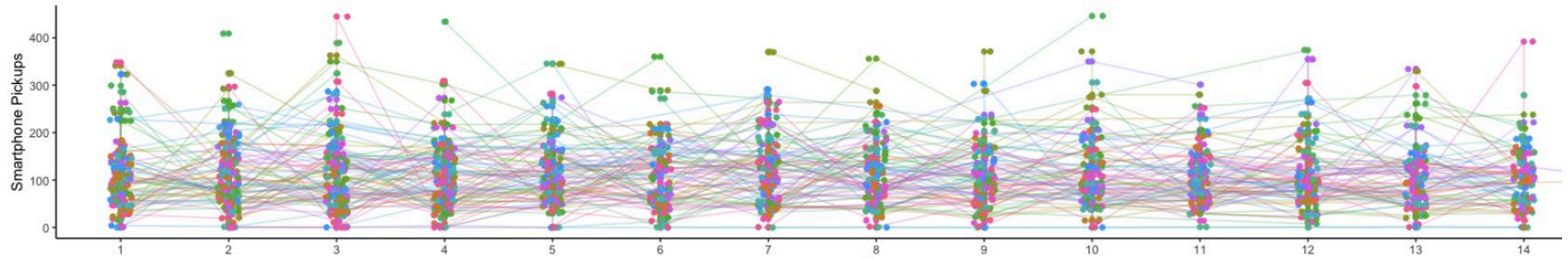
Research

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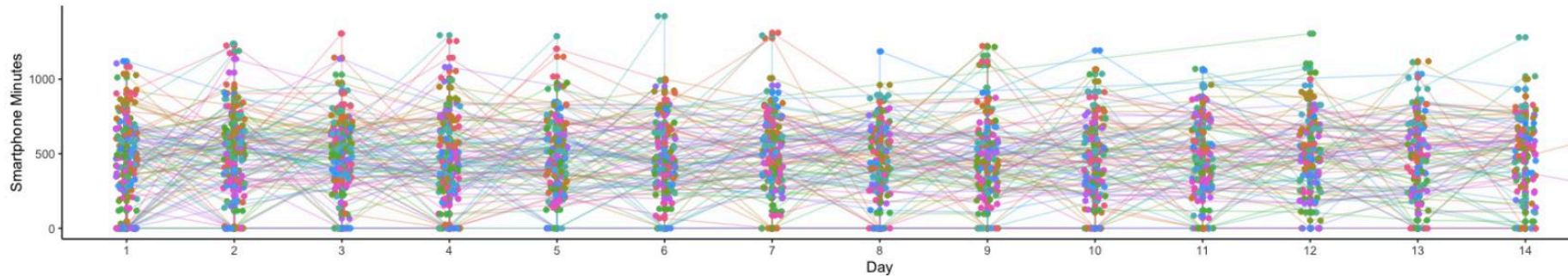
- Every day for 14 days, teens upload a screenshot of their phone usage
 - Objective
 - Not retrospective
 - Thousands of data points

Time on Social Media

Average pickups = 100/day



Average time on smart phone = 500min/day (8.3 hours)



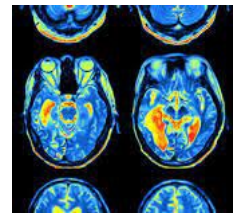
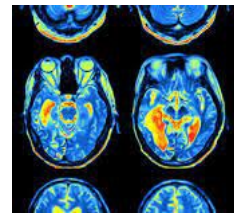
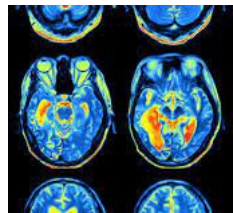
A young woman with red hair tied in a ponytail is sitting on a thick, brown shag rug. She is wearing a yellow short-sleeved shirt and blue jeans. She is looking down at a smartphone that is lying on the rug in front of her. The background shows a bedroom with a bed with white bedding and a yellow pillow, and a black office chair with a yellow backrest. A window is visible in the background, letting in natural light.

Social Media Makes Teens More Lonely

- In the immediate hour after teens use social media they feel increased loneliness, less socially connected, and crave more social interactions



Digital Media and the Developing Brain

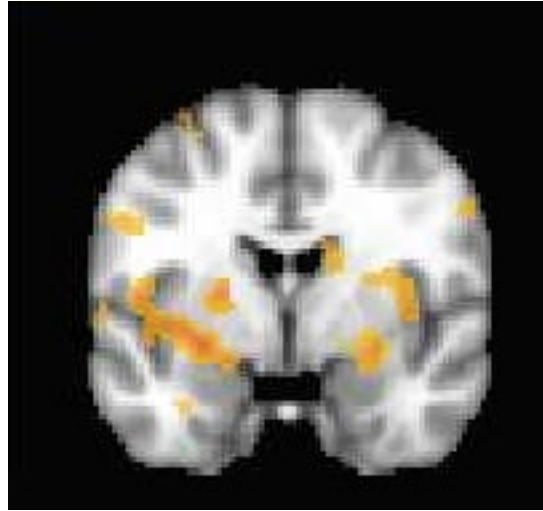
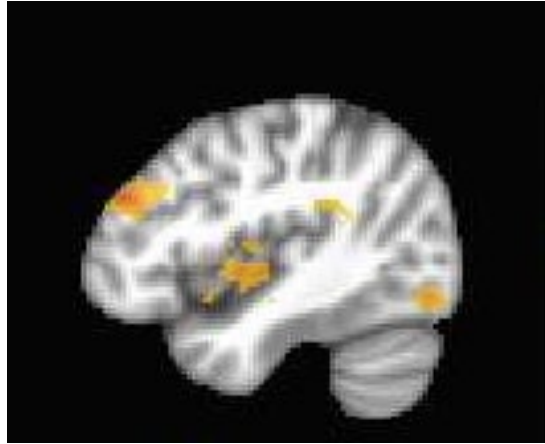


Grade 6

Grade 7

Grade 8

Grade 9



Constantly checking their phones relates to long-term changes in brain development

Alterations in regulatory, salience, and reward regions

We're just getting started!



Curriculum

Parent curriculum

Media



Dissemination

Website

Mass/media
communication



Research

Postdoc and faculty hiring

Interdisciplinary work

Wearables to track usage,
sleep, physiological stress
measures

Thanks!

Collaboratory Update



THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL

Jeffrey Warren, PhD
Executive Director
Professor of the Practice

Board of Trustee Meeting
UNC Chapel Hill
March 24, 2022

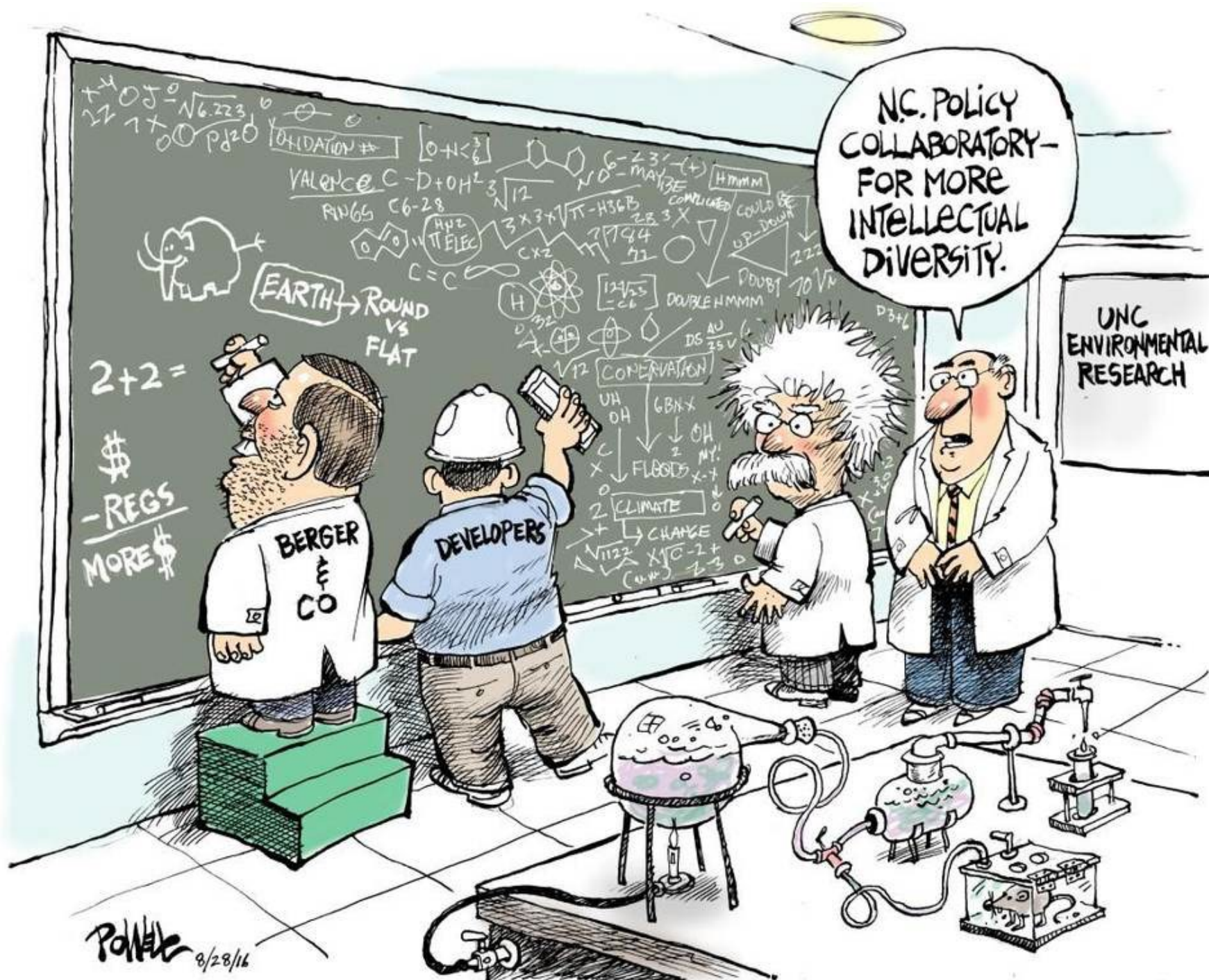


@NCCollaboratory



Policy
Collaboratory





POWELL 8/28/16

$2+2=$
\$
-REGS
MORE\$

EARTH → ROUND VS FLAT

VALANCE C-D+OH²

RINGS C6-28

FOUNDATION

[O-H]³

NO-23

CONCLUDED

COULD BE

UP-DOWN

DOUBT

70 Vn

222

D3+6

12V₂₅

DOUBLE HMMM

DS AU 35 V

CONSERVATION

UH OH

GBN-X

OH

2 MY!

X-7

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FLOODS

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2

CLIMATE

CHANGE

XTC-2+

C

X

√1122

(4+)

23

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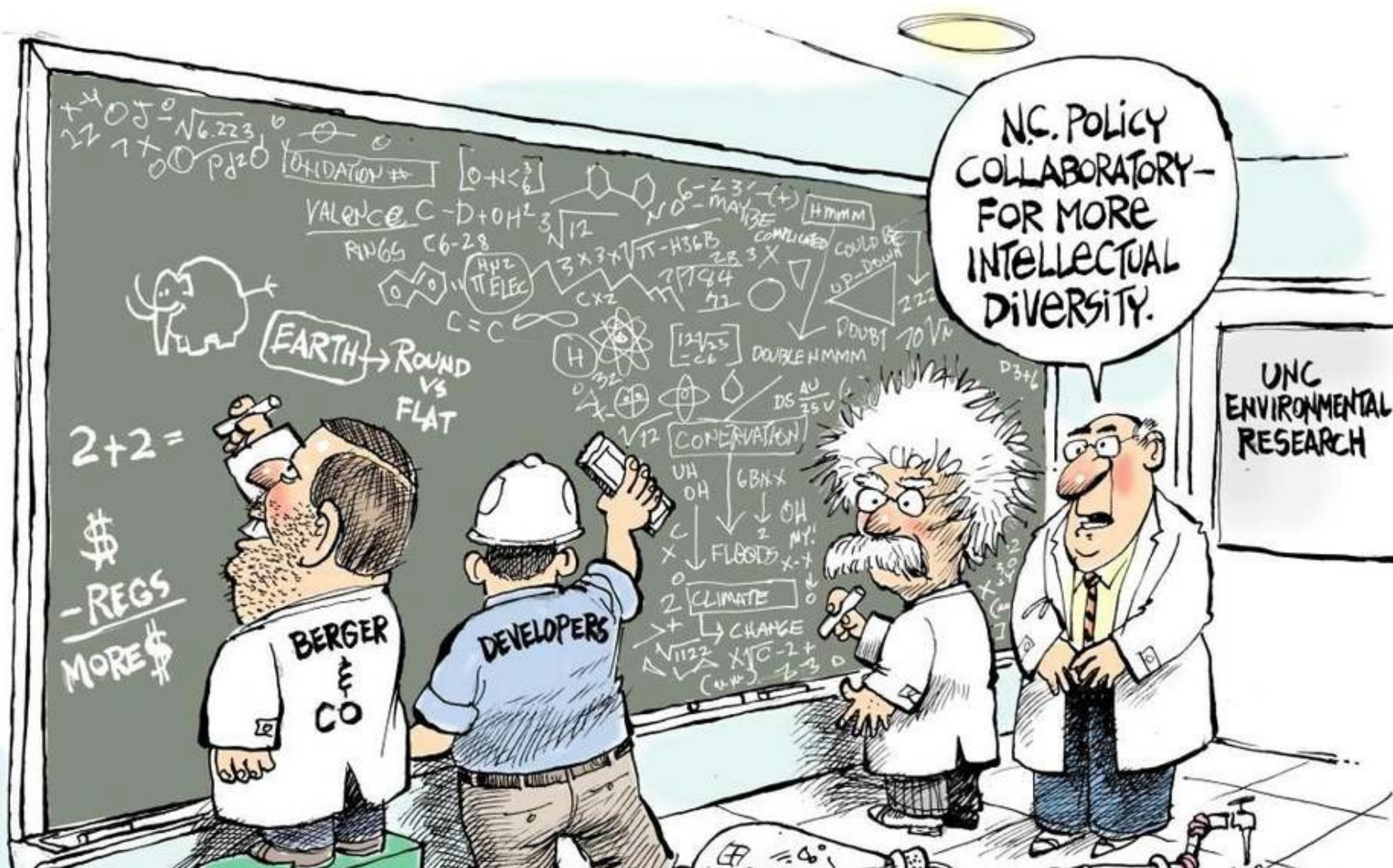
3

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2

3

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BEST OF LUCK WITH THIS PROJECT. I DO THINK SOMETHING GOOD WILL COME FROM IT! Duane Powell

Powell 8/28/16

ISSUES

IN SCIENCE AND TECHNOLOGY

SPRING 2021

NATIONAL ACADEMIES OF
SCIENCES, ENGINEERING,
AND MEDICINE

ARIZONA STATE
UNIVERSITY

Views From the Inside

NUKES

THE NSF

HOSPITALS

THE COGNITIVE
ECOSYSTEM



Science for Hyper-Partisan Times

JEFFREY WARREN

If the 2016 presidential election began an era of especially unbridled political rancor in the United States, North Carolinians were ahead of the curve by November 2010, when elections awarded Republicans the majority in both chambers of the General Assembly for the first time in 141 years. And as was true on the national political stage, environmental issues in North Carolina often split the legislature down the aisle. So as the new Republican majority began to develop environmental policy initiatives for issues including coastal management, domestic energy (e.g., offshore exploration and production, onshore shale gas, and coal ash), and broad regulatory reform, to name just a few, the agenda for holding environmental science hostage to hyper-partisan rancor was fully developed.

And then, a miracle happened.

In 2016, the Republican-led General Assembly authorized the creation of the North Carolina Policy Collaboratory. The initiative was spearheaded by Senate leader Phil Berger (R-Rockingham), in response to public suggestions that the expertise within the University of North Carolina System should be called on to help address state and local policy challenges. Berger's goal was to "have a direct contact at UNC to answer questions and make policy recommendations."

Headquartered at UNC Chapel Hill, the Collaboratory is a unique research-policy model able to leverage all 17 institutions of the UNC System. The Collaboratory's stated mission is "to utilize and disseminate the research expertise across the University of North Carolina System for practical use by state and local government," and it provides direct recommendations to the state's General Assembly. The core focus of the program is environmental and natural resources research within the state, as well as the development of new technologies for habitat,

environmental, and water quality improvement.

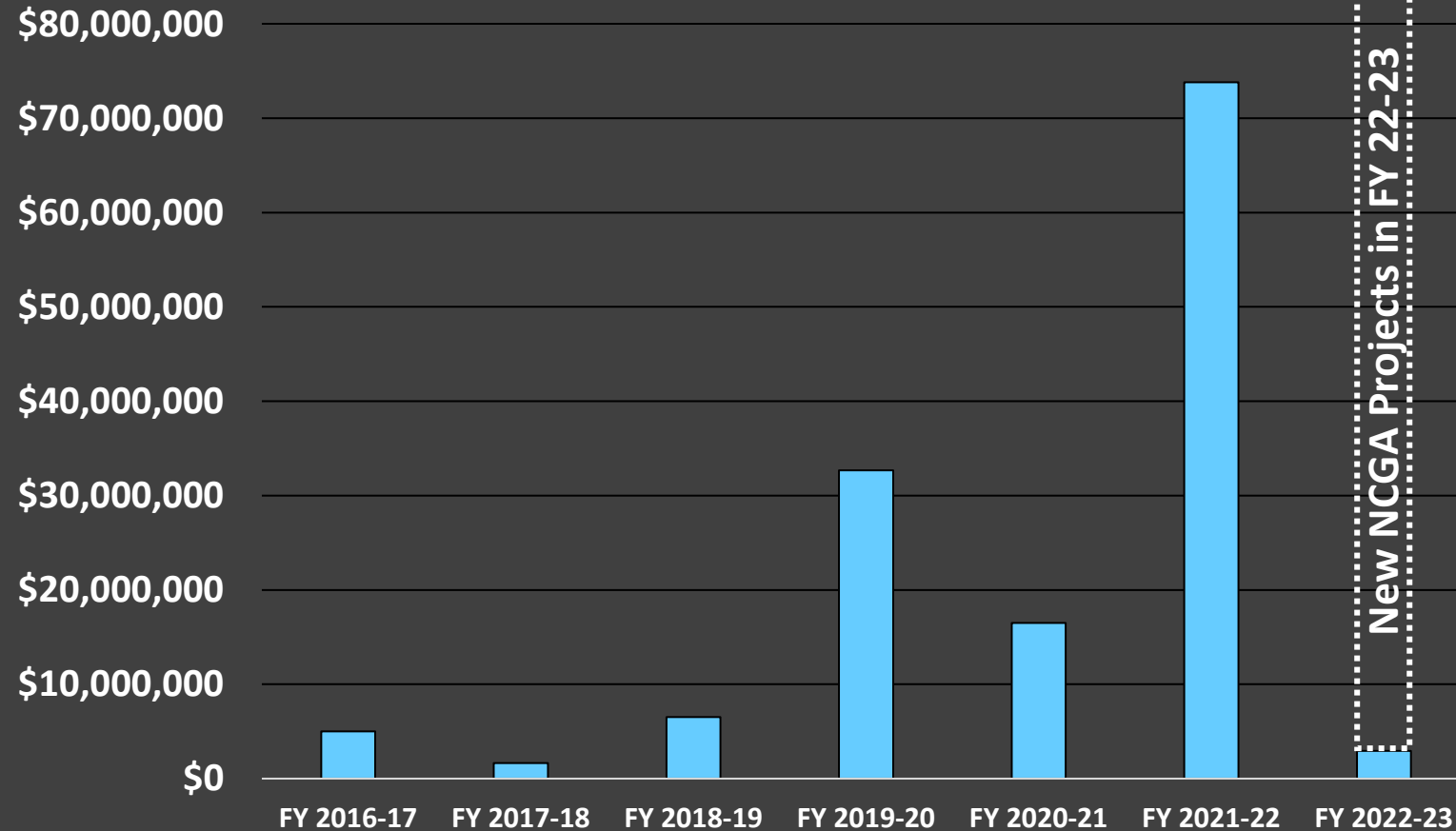
At first, the instinct for political rancor held sway. Media outlets, nongovernmental organizations, UNC faculty, and Democratic legislators seized on the emergence of the Collaboratory as a partisan attempt to co-opt academic research and thereby undermine academic freedom and institutional autonomy. The title of an article from Sound Rivers, a private nonprofit focused on protecting the state's Neuse and Tar-Pamlico River Basins, laid bare these fears: "Collaboratory: NC's new (cleverly funded) War on Science?" The UNC Chapel Hill student newspaper published an opinion column, "Environmental policy at UNC isn't for sale." Although the author acknowledged the Collaboratory seemed "a surprising step toward new effective environmental policy" for a Republican-controlled legislature, the column also stated, "Unfortunately, the current vision of the Collaboratory seems to be one of partisan gamesmanship, corporate pseudoscience, and anticademic aggression." Faculty across the UNC System bristled at the realization the center had been established without their input and even suggested via faculty resolutions that the General Assembly had broken its own laws in doing so.

Antagonists cast their skepticism far and wide and immediately speculated that the Senate leader's science adviser had been pre-anointed as the Collaboratory's inaugural leader. That adviser was me. NC Policy Watch, an online news and commentary outlet of the NC Justice Center, proclaimed me "the mastermind behind the state's bad environmental laws," and correlated my staff role with a list of its top 15 bad environmental bills. State Representative Pricey Harrison (D-Guilford), one of the state's fiercest and highest-profile environmental advocates, said, "I can't think of an individual whose had more of an impact on the environment in a negative way than Jeffrey Warren."

Total
Funding
to Date
~\$145 M

NCGA Appropriations

NC General Assembly Appropriations

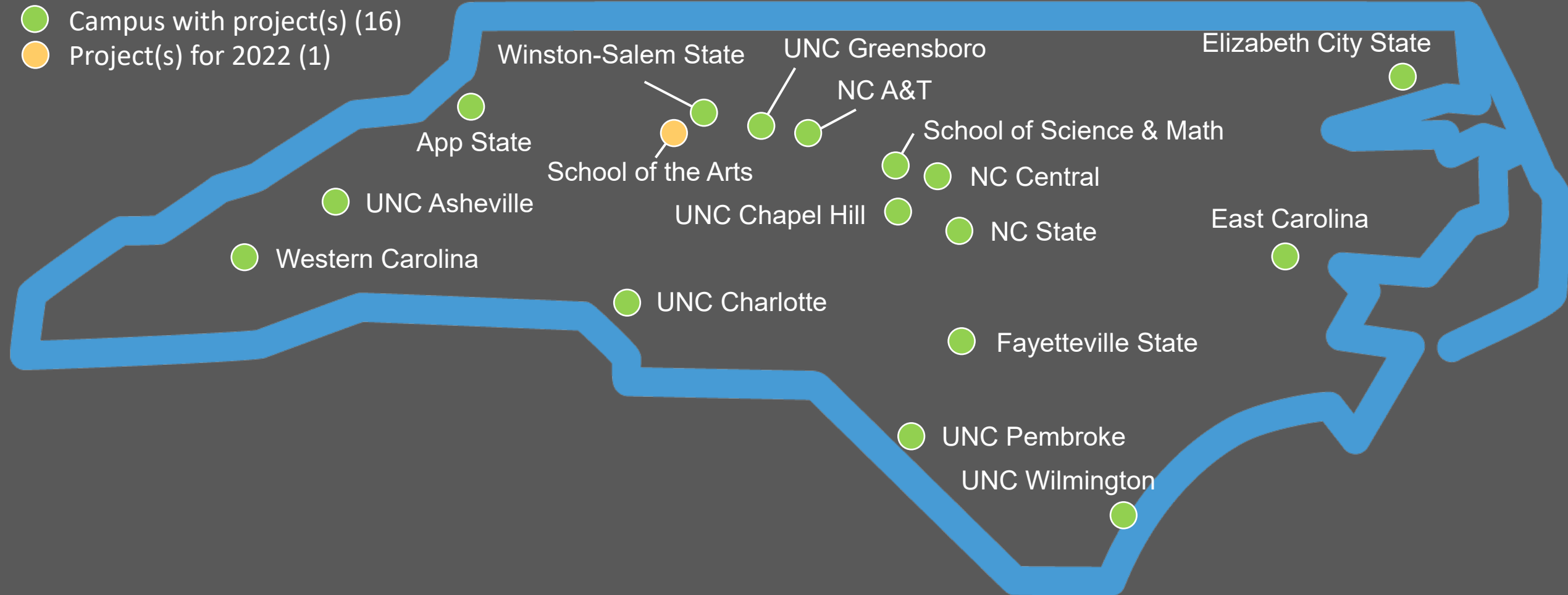


BUDGET HIGHLIGHTS

- \$20M for wastewater pilot program
- \$15M for COVID-related industry/academic partnership grants
- \$15M for additional academic COVID-related research
- \$14.25M for PFAS-related research
- \$5M for algal bloom pilot project
- New \$1M recurring for discretionary research in addition to existing \$1M (R)
- \$500k (R) for HMSI grant program
- \$600k to continue UNC FerryMon / ModMon program through end of FY 22-23
- \$750k for additional Falls/Jordan Lakes nutrient management efforts
- \$900k (R) from UNC for operations *(subject to BoT approval)*

- **Now codified in statute as Article 31A of NCGS 116-255**
- **Conduct/manage other projects of opportunity across State**
- **Support research programs at historically minority-serving institutions**
- **Identify and pursue R&D partnerships between academia and govt agencies, non-profits, and private/public business**
- **Maintain online reporting portal for firefighting foam (aqueous film-forming foam or AFFF; historically PFAS based)**
- **Teach/train students and faculty to engage in and administer neutral and unbiased research and sci pol advice**

We are now Systemwide



New Personnel



Laurie Farrar
Financial Analyst

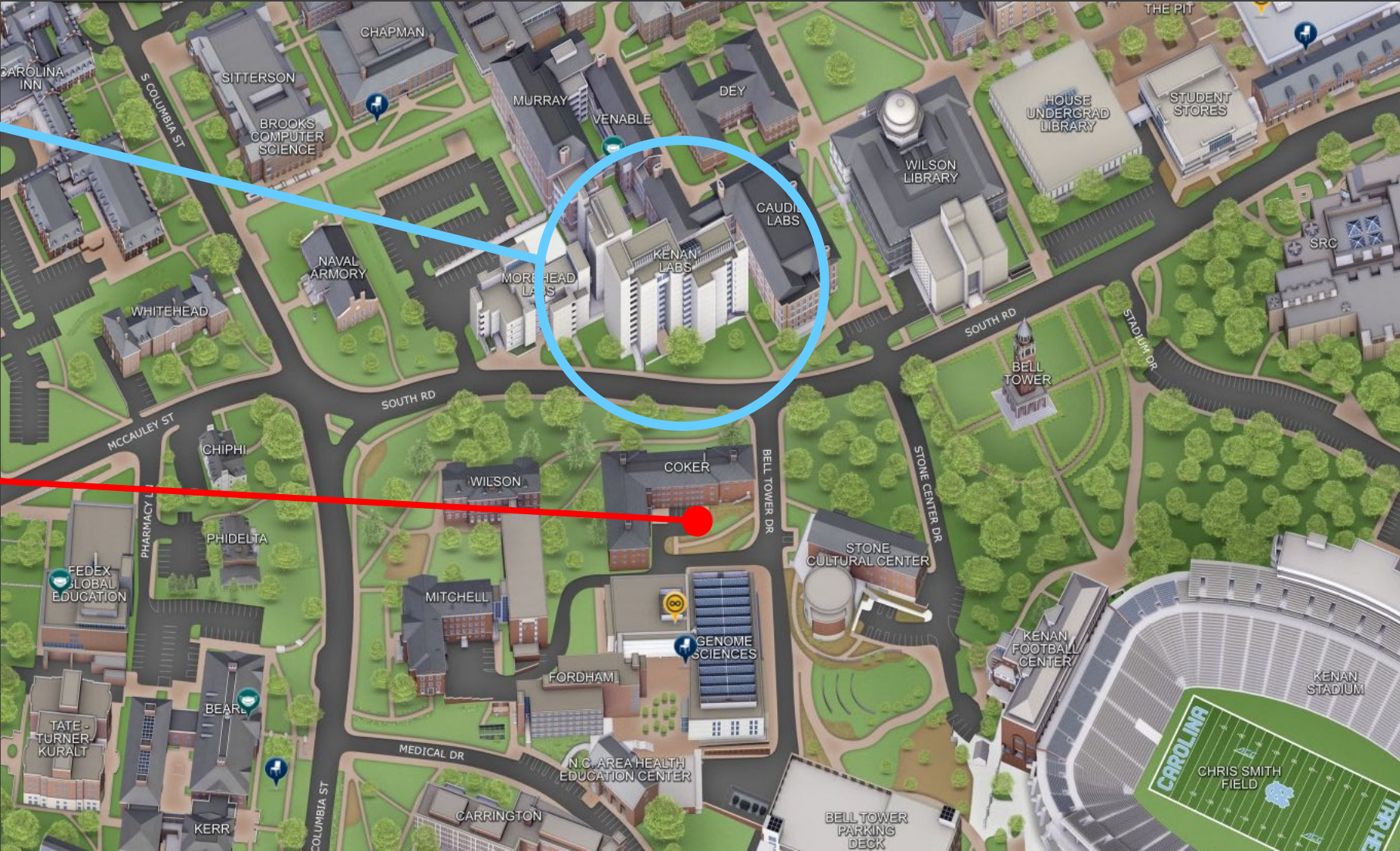


Greer Arthur, PhD
Research Director



Sarah Fitzgerald
Communications Director

Kenan Labs



Spring 2022 Intern and Graduate Research Assistant Cohort



Ally Adams
Environmental Policy Intern



Janis Arrojado
Environmental Policy Intern



Christian Chung
Environmental Policy Intern



Taylor Fitzgerald
Communications Intern



Sierra Foster
Environmental Policy Intern



Lucy Gray
Environmental Policy Intern



Elijah Gullett
Environmental Policy Intern



Ameenah Hester
Environmental Policy Intern



Sascha Medina
Communications Intern



Georgia Morgan
Environmental Policy Intern



Mykel Yancey
Environmental Policy Intern



Gabrielle Schust
Graduate Research Assistant



Rebecca Rice
Graduate Research Intern

Since beginning in 2019, our student intern program has included 30 undergrad and grad students representing schools such as Gillings, Kenan-Flagler, Journalism, and Law. This experience has provided critical exposure and training in the science policy arena.

\$74 million total investment



- \$29M in FY 19-20 (>90 projects across 15 campuses including READDI)
- \$15M in FY 20-21 (CORVASEQ – 12 partners across 64 hospitals)
- \$30M in FY 21-22 (\$15M for corporate/academic grants + \$15M discretionary)

COVID-19 RESEARCH INITIATIVE





Phase I @ \$29M

- \$6M to HSMI campuses

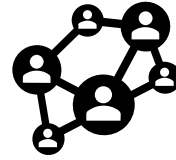


63 -80 freezers for vaccine storage

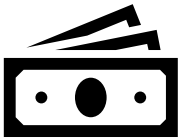
- Capacity for 1.87 million vials
(*roughly 9 million doses*)



15 UNC system campuses



>30,000 study participants



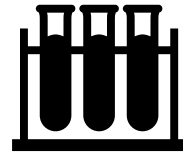
>\$22 million in leveraged funding



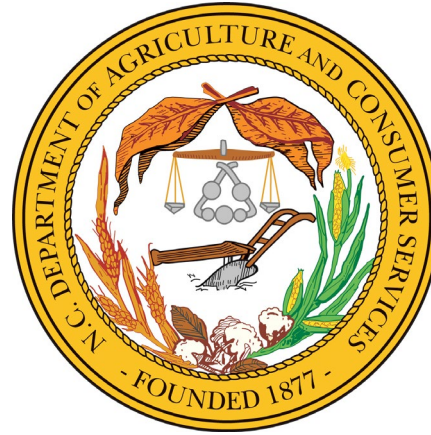
>400 external partners



>1,400 research team members



>1500 wastewater samples





Ionic Fluorogels for Remediation of Per- and Polyfluorinated Alkyl Substances from Water

Elango Kumarasamy,[§] Irene M. Manning,[§] Leonard B. Collins, Orlando Coronell,^{*} and Frank A. Leibfarth^{*}



Cite This: <https://dx.doi.org/10.1021/acscentsci.9b01224>



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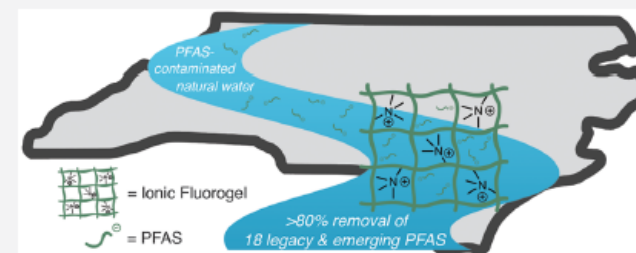
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Metrics & More

Article Recommendations

Supporting Information

ABSTRACT: Per- and polyfluorinated alkyl substances (PFASs) contaminate groundwater, surface water, and finished drinking water internationally. Their ecological persistence and adverse human health effects demand effective remediation approaches. Motivated by the limitations in selectivity and performance of current PFAS removal technologies, we report a platform approach for the development of ionic fluorogel resins that effectively remove a chemically diverse mixture of PFAS from water. The synthesis of a material library with systematic variation in fluorine and ionic components led to the identification of a resin that demonstrated rapid removal of PFASs with high affinity and selectivity in the presence of nonfluorine contaminants commonly found in groundwater. The material can be regenerated and reused multiple times. We demonstrate ionic fluorogels as effective adsorbents for the removal of 21 legacy and emerging PFASs from settled water collected at the Sweeney Water Treatment Plant in Wilmington, North Carolina.



CONGRATULATIONS



FRANK LEIBFARTH

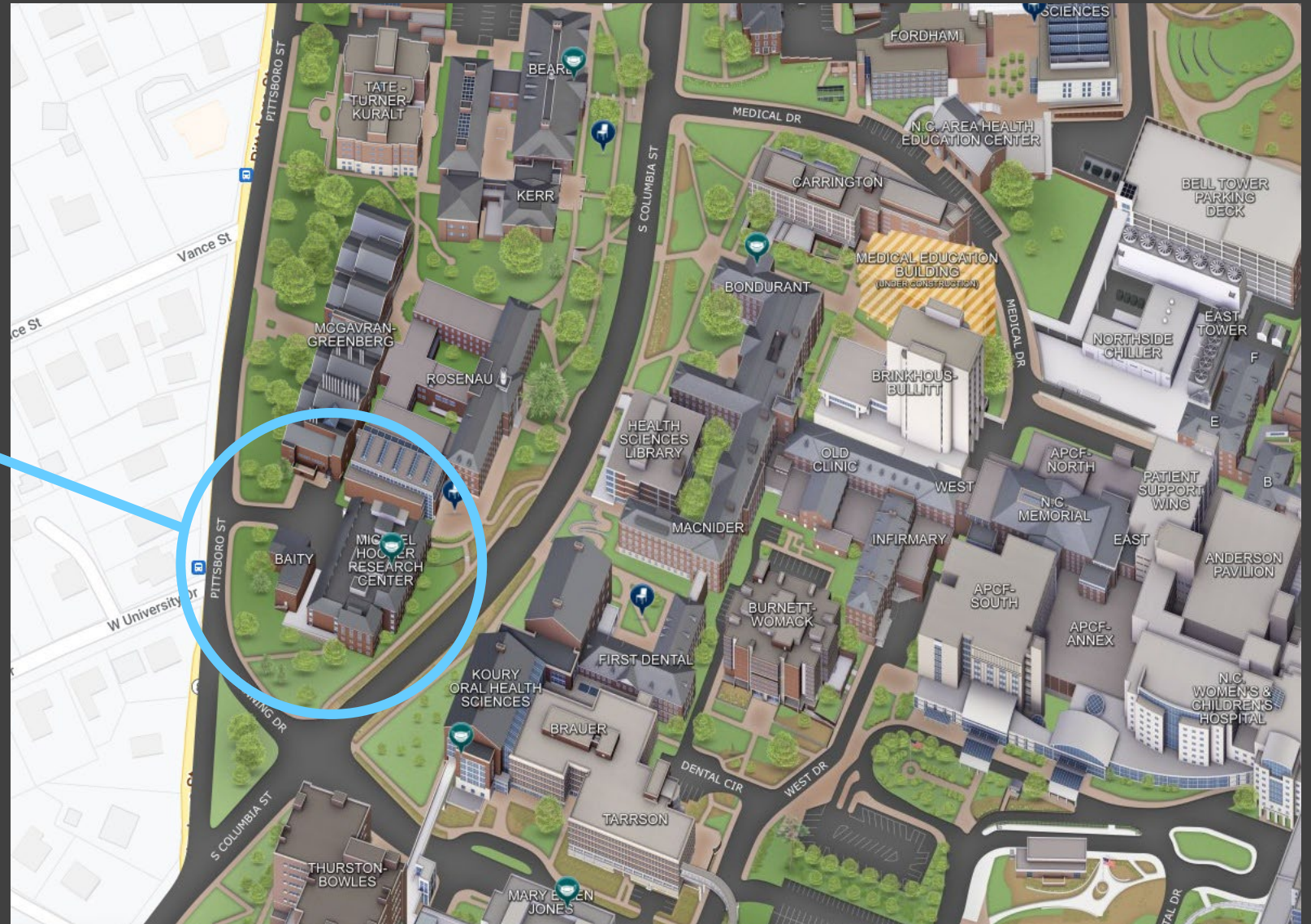
UNC

(Sept 20, 2021) <https://www.popsci.com/science/brilliant-scientists-2021/>



Orlando Coronell

Baity Hall



**Clean water
begins at the Old
Well.**



THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL

