

Quarterly Progress Report:

Project Number and Title: 2.2 Concrete Systems for 100-yr Design Life

Research Area: New Materials for Longevity and Constructability

PI: Eric Landis, University of Maine

Reporting Period: 31 March to 30 June 2020

Submission Date: 29 June 2020

Overview: (Please answer each question individually)

Project activities: (extremely limited due to COVID-19 restrictions, particularly in April and May.)

- Project kickoff meeting with Mike Redmond and Taylor Clark (TCs).
- Review of reports and related documents on MDOT issues related to recent concrete durability problems.
- General literature review.

Table 1: Task Progress			
Task Number	Start Date	End Date	% Complete
Task 1: Early age cracking inventory	1 March 2020		2
Task 2: Long term cracking inventory	1 March 2020		2
Task 3:			
Task 4:			
Overall Project:	1 March 2020	28 February 2022	

Table 2: Budget Progress		
Project Budget	Spend – Project to Date	% Project to Date*
\$166,557	\$TBD	TBD

*Include the date the budget is current to.

Describe any opportunities for training/professional development that have been provided...

Nothing yet to report

Table 3: Presentations at Conferences, Workshops, Seminars, and Other Events				
Title	Event	Type	Location	Date(s)

Table 4: Publications and Submitted Papers and Reports				
Type	Title	Citation	Date	Status

Encouraged to add figures that may be useful (especially for the website)...

Insert figures here

Participants and Collaborators:

Use the table below to list all individuals who have worked on the project.

Table 5: Active Principal Investigators, faculty, administrators, and Management Team Members			
Individual Name	Email Address	Department	Role in Research
Eric Landis	landis@maine.edu	Civil and Environmental Engineering	PI
Hosain Haddad Kolour	hosain.haddad@maine.edu	Civil and Environmental Engineering	Post-doctoral research associate

Use the table below to list all students who have participated in the project during the reporting. (This includes all paid, unpaid, intern, independent study, or any other student that participated in this project.)

Table 6: Student Participants during the reporting period				
Student Name	Email Address	Class	Major	Role in research

Use the table below to list any students who worked on this project and graduated during this reporting period.

Table 7: Student Graduates			
Student Name	Role in Research	Degree	Graduation Date

Current discussions are ongoing with the Maine DOT and the Maine Turnpike Authority for additional project matching funds.

Table 8: Research Project Collaborators during the reporting period						
Organization	Location	Contribution to the Project				
		Financial Support	In-Kind Support	Facilities	Collaborative Research	Personnel Exchanges

List all other outputs, outcomes, and impacts here (i.e. patent applications, technologies, techniques, licenses issued, and/or website addresses used to disseminate research findings). Please be sure to provide detailed information about each item as with the tables above.

Have other collaborators or contacts been involved? If so, who and how? (This would include collaborations with others within the lead or partner universities; especially interdepartmental or interdisciplinary collaborations.)

Table 9: Other Collaborators

Collaborator Name and Title	Contact Information	Organization and Department	Contribution to Research
			(i.e. Technical Champion)

Who is the Technical Champion for this project?

Name: *Michael Redmond*

Title: *Concrete Quality Specialist at MaineDOT Bridge Program*

Organization: *MaineDOT*

Location (City & State): *Augusta, Maine*

Email Address: *Michael.Redmond@maine.gov*

Changes:

A potential concern is whether the graduate research assistant hired for the position, Adhora Tahsin, will be able to get to campus by her September 1 start date due to pandemic-related world travel restrictions and associated visa issues. We are monitoring this issue, and we will make adjustments as new information comes available.

At this point, we judge the project to be about three months behind schedule, although we hope to make up some of that time during the next quarter as work and travel restrictions ease.

Planned Activities:

For the next quarter, we plan to visit field sites, diagnose potential problems, and develop laboratory experiments to test potential solutions.