

**MINUTES
of the
SECOND MEETING
of the
SCIENCE, TECHNOLOGY AND TELECOMMUNICATIONS COMMITTEE**

**July 22, 2021
University of New Mexico-Los Alamos
Los Alamos**

**July 23, 2021
Los Alamos National Laboratory
Los Alamos**

The second meeting of the Science, Technology and Telecommunications Committee was called to order by Representative Debra M. Sariñana, chair, on July 22, 2021 at 10:04 a.m. at University of New Mexico-Los Alamos (UNM-LA).

Present

Rep. Debra M. Sariñana, Chair
Sen. Michael Padilla, Vice Chair (7/22)
Sen. William F. Burt
Rep. Joy Garratt
Rep. Jason C. Harper
Sen. Shannon D. Pinto
Sen. Harold Pope
Sen. William P. Soules

Absent

Sen. Mark Moores
Rep. Larry R. Scott
Rep. Linda Serrato

Advisory Members

Rep. Eliseo Lee Alcon
Sen. Craig W. Brandt (7/22)
Rep. Christine Chandler (7/22)
Rep. Kelly K. Fajardo (7/22)
Sen. Leo Jaramillo
Rep. Randall T. Pettigrew
Rep. Jane E. Powdrell-Culbert

Rep. Gail Chasey
Sen. Bill B. O'Neill
Sen. Nancy Rodriguez
Rep. Andrea Romero
Sen. Bill Tallman

(Attendance dates are noted for members not present for the entire meeting.)

Staff

Mark Edwards, Bill Drafter, Legislative Council Service (LCS)
Ralph Vincent, Systems Consultant, LCS
Erin Bond, Research Assistant, LCS

Guests

The guest list is in the meeting file.

Handouts

Handouts and other written testimony are in the meeting file and posted on the legislature's website.

References to Webcast

The time reference noted next to each agenda item in this document is cross-referenced to the webcast of the committee meeting, which can be found at www.nmlegis.gov, under the "Webcast" tab. The presentations made and committee discussions for agenda items can be found on the recorded webcast for this meeting.

Thursday, July 22

Welcome to Los Alamos (10:08 a.m.)

James Robinson, vice chair, Los Alamos County Council, welcomed the committee to Los Alamos.

Welcome and Introductions (10:10 a.m.)

Representative Sariñana welcomed the committee. Members of the committee and staff introduced themselves. Representative Sariñana asked members of the audience to introduce themselves.

Update on UNM-LA (10:22 a.m.)

Cynthia J. Rooney, Ph.D., chancellor, UNM-LA, provided the committee with a status update on the Los Alamos branch of the University of New Mexico.

The Generic State Information Technology Project Life Cycle (11:05 a.m.)

John Salazar, secretary, Department of Information Technology (DoIT), provided the committee with a presentation on the business processes involved in the life cycle of a typical information technology project. The presentation can be found here:

<https://www.nmlegis.gov/handouts/STTC%20072221%20Item%202%20IT%20Project%20Lifecycle%20.pdf>.

Potential of Blockchain Technology for Cybersecurity for State Agencies (12:28 p.m.)

Raja Sambandam, chief information security officer, DoIT, described the technology known as "blockchain" and how this technology's shared ledger for recording transactions and tracking assets could provide one cybersecurity tool to protect the state's networks and applications. The presentation can be found here:

<https://www.nmlegis.gov/handouts/STTC%20072221%20Item%203%20DoIT%20Blockchain%20.pdf>.

Los Alamos National Laboratory (LANL) Status Update (1:34 p.m.)

Frances Chadwick, staff director, LANL, provided the committee with a status update on LANL. The presentation can be found here:

<https://www.nmlegis.gov/handouts/STTC%20072221%20Item%204%20State%20of%20the%20Lab-LA-UR-21-27012.pdf>.

LANL's Science, Technology, Engineering and Mathematics (STEM) Outreach and Pipeline Programs: Opportunities for the Future (2:15 p.m.)

Kathy Keith, director, Community Partnerships Office, LANL, and Nan Sauer, senior director, Partnerships and Pipeline Office, LANL, provided the committee with an overview of the STEM outreach programs in place at LANL. The presentation can be found here:

<https://www.nmlegis.gov/handouts/STTC%20072221%20Item%205%20Keith%20Sauer%20STEM%20Pipeline%20Talk.pdf>.

A Potential Regional Strategy for Transitioning the Intermountain West to a Carbon-Neutral Energy Economy (3:20 p.m.)

George Guthrie, deputy director, Applied Energy Program, LANL, discussed several LANL applied energy programs and a regional strategy to decarbonize the intermountain western states. The presentation can be found here:

<https://www.nmlegis.gov/handouts/STTC%20072221%20Item%206%20Carbon-Neutral%20Energy%20Economy.pdf>.

Public Comment

There was no public comment.

Recess

The meeting recessed at 4:25 p.m.

Friday, July 23

Reconvene

Representative Sariñana reconvened the meeting at 8:44 a.m.

Working Breakfast at J. Robert Oppenheimer Study Center and Research Library — Mars Rover (8:44 a.m.)

Dr. Nina Lanza and Dr. Roger Wiens from LANL's Space and Planetary Exploration Team discussed the Mars Rover project. Dr. Lanza discussed the reasoning behind exploring Mars and how findings can apply to terrestrial research. Dr. Wiens discussed the technology, which includes lasers, microphones and infrared sensors, that is in use on Perseverance, the rover that launched in 2020, and how that technology can be used to detect biotic material.

Tour of LANL (9:30 a.m.)

Alan B. Carr, senior historian and program manager, National Security Research Center, LANL, gave the committee a tour of the National Security Research Center at LANL.

Adjournment

There being no further business before the committee, the meeting adjourned at 11:35 a.m.