

**UNIVERSITY COMMITTEE
ON
ACADEMIC COMPUTING AND COMMUNICATIONS
ANNUAL REPORT 2017-2018**

TO THE ASSEMBLY OF THE ACADEMIC SENATE:

The University Committee on Academic Computing and Communications (UCACC) is charged in Senate Bylaw 155 to represent the Senate in all matters involving the uses and impact of computing and communications technology and advise the President concerning the acquisition, usage and support of computing and communications technology and related policy issues. UCACC held three in-person meetings during the 2017-2018 academic year. Highlights of the committee's actions are outlined below.

IT GOVERNANCE

This year, UCACC focused on IT governance at the campus level. In regular reports from UCACC members, it became apparent that faculty engagement with campus IT governance varied widely. In an effort to promote broader Senate engagement at all UC campuses, the committee gathered information about IT models at each campus and discussed best practices for facilitating communication. The committee then drafted a memo for distribution to Academic Senate leaders with recommendations for Senate engagement in joint governance of information technology strategy, planning, policy, and implementation at the campus level. In March, the Academic Council agreed to disseminate UCACC's IT Governance "best practices" memo to Academic Senate Divisions.¹

DATA GOVERNANCE AND STEWARDSHIP

- ***University Policy on Data Ownership***

Research Policy Analysis and Coordination (RPAC) Executive Director Wendy Streitz introduced the University's sole "policy" on research data, which dates back to the 1930s. UCACC is pursuing questions of data ownership and governance, hence this timely discussion. Attention has shifted in recent years from a concern for data ownership to governance and stewardship, in line with open data policies of funding agencies and journals. UCSD and UCLA have published guidelines on data governance; these may form the basis for a new systemwide policy. In most cases, UC owns research data and the university is expected to manage and maintain the original record. Decisions about sharing and use of data, however, are often made at the local level.

- ***Health Data Governance***

The committee was updated on the Task Force on Health Data Governance that was convened by President Napolitano in spring, 2017, and is charged with developing recommendations for how UC should manage and use the large amount of health data generated throughout the system. The Task Force was the result of inquiries that UC receives frequently from vendors and organizations about collaboration and use of UC's patient data. Agreements are already underway at various levels of the university, from the system to individual researchers, and UC

¹ UCACC Recommendations on IT Governance at the Campus Level, March 27, 2018:
(<https://senate.universityofcalifornia.edu/files/reports/SW-SenateDivisions-UCACC-IT-Governance-Recs.pdf>)

is interested in treating these agreements in a uniform way. The agreements are not only to generate revenue for the University, but also for scientific advancement and potential improvements in health outcomes.

- ***UC Data Management***

Günter Waibel, the Executive Director of UC's California Digital Library (CDL), and Stephen Abrams, the Associate Director of the UC Curation Center at the CDL joined UCAAC in the spring to present a proposed "UC Data Network" (UCDN). The UCDN is a joint initiative of University Librarians, Chief Information Officers, and Vice Chancellors for Research that would provide a platform for open data publication, preservation, sharing, and reuse of UC research data.

- ***Personally Identifiable Information (PII)***

Committee members discussed "personally identifiable information" in the context of systems that are designed with consideration for responsible data management and security. Campuses have myriad and diverse systems that make universal training difficult, and additional end-user training has limited outcomes. UC CIO Tom Andriola wants faculty to fully understand the risks, and to discuss responsible computer and digital device use with colleagues and local administrators. Andriola suggested that these conversations need to be campus efforts, possibly led by divisional Senate IT committees, and should not be driven from OP.

CONSULTATION WITH SYSTEMWIDE INFORMATION TECHNOLOGY SERVICES (ITS)

UCACC has worked closely with Systemwide IT Services since the inception of UCACC in 2015. The chair and vice chair meet regularly with UC CIO Tom Andriola to set agendas and to coordinate communications between the Senate and UCOP on IT policy matters. Chair Christine Borgman and Vice Chair Maryann Martone spent two days in February at the quarterly meeting of Systemwide CIOs to discuss Senate-staff partnerships.

- ***Cybersecurity***

UCACC received regular updates on cybersecurity issues from UC CIO Tom Andriola and Chief Information Security Officer David Rusting. UCACC Chair Christine Borgman and/or Vice Chair Maryann Martone attended the quarterly meetings of the Cyber-Risk Governance Committee throughout the year. Chair Borgman and Vice Chair Martone gave presentations at each meeting.

Faculty continued to be concerned about tradeoffs between privacy, surveillance, and security. UCACC discussed FireEye and other cybersecurity technology and shared information among members about various campus approaches and processes. Campuses are implementing FireEye in different ways and faculty have been encouraged to work directly with their campus administrations and to pursue more joint governance.

- ***Electronic Information Security Policy (IS-3)***

UCACC discussed the proposed revised Electronic Information Security Policy ("IS-3"), during meetings in 2016-17 and 2017-18. This year, the Chair and Vice Chair of UCACC, along with members, worked closely with the drafters of the IS-3 policy (Robert Smith, David Rusting, and Tom Andriola) and current Senate leadership to reach consensus on a final version of the policy. UCACC's careful review, including suggestions for clarifying the policy and accompanying FAQ, led to a successful "joint governance" outcome. The final policy is anticipated to be effective as of July, 2018.

- ***Web Accessibility and Accessible Technology***

In April, ITS Chief of Staff Yvonne Tevis joined UCACC to inform the committee about UC's efforts around accessible technology. The CIO's Information Technology Leadership Committee (ITLC) now has a subcommittee on accessible technology. UC established a policy on accessibility in 2013; each UC location is required to have a program for accessibility and to adopt international standards. There are over 9,000 students who are registered as disabled at the ten campuses. UCACC will continue to engage with UCOP administration around this topic via regular updates at committee meetings and through the ITLC, where the UCACC Chair has an *ex-officio* appointment. UCACC members can also work with campus representatives of the ITLC's Educational Technology committee through their local committees.

- ***Multifactor Authentication (MFA) updates***

In the second half of the academic year, UCACC received updates on the rollout of multifactor authentication software throughout the UC system. Each location was responsible for its own implementation for faculty and staff. Some student employees were included in the rollout. The use of multi-factor authentication provides additional necessary security for UC. UCACC requested, and received, additional reports on implementation experiences of the ten campuses, given the diversity of approaches taken to deploying MFA.

ADDITIONAL BUSINESS

Open Infrastructure: UCACC members were introduced to the FAIR Principles last year by the current Vice Chair, Maryann Martone from UCSD. Martone is a founding member of Force11, which is a group of scholars, librarians, publishers, and research funders who work to facilitate knowledge creation and sharing in a changing scholarly communications landscape. The concept of open access for articles has become familiar, but there is now a desire to extend openness to other research outputs. Open data infrastructure will be on the UCACC agenda for next year.

General Data Protection Regulation: The implications of the GDPR, which harmonizes and strengthens privacy protections in Europe, are still being assessed, but its passage will likely require changes to UC procedures. Among the impacts will be new requirements for managing the records of European students applying to UC, and of UC students studying in Europe. Although GDPR is a legal matter, it may have substantial implications for IT operations, and will be kept on UCACC's agenda.

Innovative Learning Technology Initiative (ILTI) – Online Education Update: In the fall, UCACC learned about the current issues faced by ILTI, including barriers to systemwide enrollment due to UC policies and registrar standards. The Senate's University Committee on Educational Policy (UCEP) had recommended ILTI staff consult with UCACC on an issue involving interoperability between registration systems. UCACC received periodic updates from Director Mary-Ellen Kreher, who is a consultant to UCACC. Most of the interoperability issues identified were found to be policy, rather than technical, in nature.

Systemwide and campus updates: UCACC devoted part of each regular meeting to discussing systemwide issues as reported by Academic Senate leadership and reports from campus representatives on individual campus activities and concerns.

CORRESPONDENCE REPORT

- Systemwide review of the Proposed Presidential Policy on Open Access for Theses and Dissertations (UCACC to Academic Council Chair Shane White, March 14, 2018)
- Finalizing Electronic Information Security Policy (IS-3) (UCACC to CIO Tom Andriola, March 14, 2018)
- UCACC Recommendations to Academic Senate on IT Governance at the Campus Level (UCACC to Academic Council Chair Shane White, March 15, 2018)

PRESENTATIONS

- “IS3 and the Academic Senate: Review of process and lessons learned” (Maryann Martone, UC Cyber Risk Governance Committee, March 27, 2018)
- “Academic Senate and IT Leadership: Shared Governance in Practice” (Christine Borgman and Maryann Martone, UC Information Technology Leadership Council, Feb. 7, 2018)
- “Senate Update to CRGC: Academic Computing and Communications” (Christine Borgman and Maryann Martone, UC Cyber Risk Governance Committee, Nov. 28, 2017)

REPRESENTATION

UCACC Chair Christine Borgman, served as a faculty representative to the Information Technology Leadership Council and as an *ex officio* member of the University Committee on Library and Scholarly Communications. Chair Borgman and Vice Chair Maryann Martone served as Senate representatives on the Cyber-Risk Governance Committee (CRGC).

ACKNOWLEDGEMENTS

UCACC is grateful for the contributions made by the consultants and guests who attended meetings in 2017-18:

- Stephen Abrams, Associate Director, UC Curation Center (CDL)
- Tom Andriola, CIO (Consultant to UCACC)
- Adam Hochman, Assistant Director of Technology Development, ILTI
- Mary-Ellen Kreher, Director of Course Design and Development, ILTI
- Ellen Osmundson, Project Director, ILTI
- David Rusting, Chief Information Security Officer, UCOP
- Robert Smith, IT Policy Director, UCOP
- Wendy Streit, Executive Director, Research Policy Analysis and Coordination
- Yvonne Tevis, Chief of Staff – Information Technology Services
- Günter Waibel, Executive Director, California Digital Library

RESPECTFULLY SUBMITTED,

UCACC 2017-18:

Christine Borgman, Chair (LA)
Maryann Martone, Vice Chair (SD)
Anthony Joseph (B)
Michael Kleeman (D)
Russell Detwiler (I)
Sarah T. Roberts (LA)
Lisa Raphals (R)
Terry Gaasterland (SD)
David Robinowitz (SF)
Jianwen Su (SB)

Brant Robertson (SC)
Shane White, Chair, Academic Senate (*Ex Officio*)
Robert May, Vice Chair, Academic Senate (*Ex Officio*)
Onyebuchi Arah, CCGA Vice Chair (*Ex Officio*)
Edward Caswell-Chen, UCEP Chair (*Ex Officio*)
Richard Schneider, UCOLASC Chair (*Ex Officio*)
Joanne Miller, Committee Analyst