

## ARDR-ARCH - Advisory Committee Minutes, Fall 2024

**Date:** Friday, November 1, 2024

**Number of Attendees:** 20

**Called to order:** 12:05 pm

**Adjourned:** 1:40 pm

**Chairperson:** Bruce Gunderson

**Recorder:** Jennifer Woods

**Location:** ATC 108 and Zoom

**Members present from industry:** Ron Balmer, Southland Industries; Jaime Frias, DPS; Andres Gonzalez, HDR; Bruce Gunderson, LANL; Joe Hawkins, Jaynes Corp.; Aaron Ketner, DPS; Dilendra Maharjan, Heatly Engineering; Mike May, Future Focused Education; Mathew Miller, Wilson Co.; Dylan Robinson, CTE Intern-APS; Julie Sebelin, Molzen Corbin; Meg Tokunaga-Scanlon, Future Focused Education;

**Members present from CNM:** Dorothy Duran, WCS Outreach; Nate Geoffrion, Instructor; Eric Ghahate, CM Instructor/Program Chair; Sionna Grassbaugh, Interim Assoc. Dean; Erin Johnson-Kruft, Interim Dean; David Miertschin, Instructor; Karin Pitman, PM-Facilities Management; Jennifer Woods, Academic Tech Assistant

**Next scheduled meeting:** TBD

**I. Welcome/Introductions:** Bruce started the meeting and everyone introduced themselves.

**II. Minutes:** Minutes from the spring 2024 meeting approved by all as written.

**III. Reports:**

- 1. College Updates:** Erin reported that there is a bond issue on the ballot in the current election, which if passed, will allow CNM to move the FUSE Makerspace to a new facility on Main campus. The goal is to build a facility that will be designated as a Technology Innovation Entrepreneurial Development Center (TIED). The program review process begins in November (CIPR). The goal is to improve delivery of our classes and support programs that will need more enrollment. There are several different indices that are reviewed, including declared majors, graduation rates, curriculum revision, industry data and sustainability. If a program is in the FIX category, a team will meet in order to devise a strategy to boost the program. There is a job posting for a P/T faculty position on the CNM web site:  
[https://chess.wd1.myworkdayjobs.com/en-US/CNMJOBS/job/Part-Time-Instructor---Architectural-Engineering-Drafting\\_JR107197](https://chess.wd1.myworkdayjobs.com/en-US/CNMJOBS/job/Part-Time-Instructor---Architectural-Engineering-Drafting_JR107197)
- 2. Enrollment and Graduation rates:** Enrollment is in a positive trend. David explained how the ARDR program is set up. It is a 4-term program, and first term is taught every term and is a pre-requisite for the following three. The other three terms are non-sequential so that students may take the classes in any order. The ARCH program is a 4-term program and allows students to get into UNM at the junior level. The program is in need of additional faculty for teaching evening classes. The college also needs a way to reach out to students with information about the program. David asked the members to let us know how we can improve the program.
- 3. Equipment:** None

**IV. Old Business:** David said that ARDR has been renamed. It is now Architectural Engineering Construction Modeling and Documentation Technology (A/E/C DOC Tech). ARDR 1116 replaces CM 1105.

**V. New Business:** Dorothy discussed the WCS (Workforce and Community Success) division at CNM. The WCS serves students with career development and work-based learning, and industry partners with job postings, hiring events, help with internships and creating career events, tabling sessions, Job shadowing, classroom visits. Funding is available to help pay for internships. Interns need to be paid \$15 an hour and the college will reimburse employers for \$12 of that. Employers may take on more than one intern in different disciplines. Dorothy is at [dduran162@cnm.edu](mailto:dduran162@cnm.edu). For more information about WCS, [employersupport@cnm.edu](mailto:employersupport@cnm.edu). Erin added that APS and Future Focused Education are both partners with CNM for internships and work-based learning.

David spoke about the curriculum during the reports section.

**VI. Reports from Industry Members:** Mike M. talked about Future Focused Education. He would like to emphasize to industry that employers should hold back a certain amount of funds in order to bring younger people into the intern pipeline. He sees a continuum for high school students, through to CNM, and then on to internships with employers, resulting in jobs. APS is a major partner for paying for internships for high school students. Many of the skills that high school students are learning segue into the programs at CNM. After CNM, those students can transition into UNM or industry. It is necessary for young students to be exposed to many different pathways within disciplines. Mathew said that file management is important, and this skill can start early. Access to BIM 360 (ACC-Autodesk Construction Cloud) is an issue that the college needs to address both in terms of deployment/access for students and including it in the curriculum. BIM 360 is now an industry standard.

Bruce is with LANL now, and he says the government is about 20 years behind in file management. He is working on updating systems to a 3-D data BIM workflow. This requires training employees, standards, and owners. Owners include large entities such as UNM, Sandia, CNM, facility managers, (Karin P. is from the facilities side of CNM.) real estate, property managers. Bruce suggested we invite these types of entities to the advisory. Their input would be invaluable. Students graduating from this program could be recruited by any of these entities. Bruce said that LANL has a partnership with Texas A&M, which offers BIM Certification to LANL employees.

Ron B. said that he does information modeling, but the owners want the data. In his industry, he does mostly construction, but there are engineers who design facilities and then talk to the installers. He has a former CNM grad on his team, but he always needs detailers. His company is not based in Albuquerque, but there are open positions here. He likes the name change. Sionna made the suggestion that perhaps workers from different industries could co-teach with our faculty on specific topics covered in the class. This might help to solve the problem of hiring a full-or part-time faculty who has the breadth of knowledge needed to teach everything. Erin supports this idea and further conversations.

Joe H. said that he has hired several CNM students and has had interns. Getting students used to software is essential, although today's students are more computer savvy. Both David and Nate mentioned the fact that they have students who fit into a wide spectrum of abilities; from very skilled and motivated to the other end, where students are not motivated and have few skills and not willing to work hard. Teaching to the middle of this spectrum is challenging.

Andres comes from a civil engineering firm. He graduated from CNM in 2019. He wants to make sure the program is giving the students options to take different pathways in this industry. His mentor at work is a TVI graduate. He is impressed with the program here.

Dylan R. is a senior Intern with APS, substituting for Melodee Saiz. He said that there are 499 student interns, in many different areas, and he works with middle schoolers, to introduce them to career pathways. He does job shadowing with students, and plans to have even more student interns by January. He is in his second year at UNM. He enjoys being of service to teachers and students. Mike M. expressed how impressed he is with Dylan and his team, for the work he does to facilitate a career pathway for young students. Sionna added that more discussion needs to happen around creating more dual credit classes.



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Dylan said that APS is trying to target students from marginalized communities, Title 1 or homeless. Internships are really changing their lives. As first-generation citizens, they are able to support their families.

Karin talked about her extensive background in teaching, numerous places including Santa Fe Community College, and she as an architect and landscape architect. She has worked with the city as a planner, and she's an artist. She is now the project manager for different capital projects at CNM. She is interested in how the college can reach out to young students. There is a job opening for an assistant PM in her department. Karin thinks there should be classes taught that target very specific skills, and a credential awarded for the completion of the class. Erin agreed. CNM Ingenuity is capable of doing this. People already in the industry could teach.

Mat M. from Wilson Co. does civil engineering. He is a Project architect.

Julie S. said that she is interested in the internship program. She also wants to know more about Ingenuity.

Dilendra M. with Heatly Engineers said he is a structural design firm. He hires BIM modelers and drafters. He wants to speak directly with students in the program.

Jaime F. with DPS said in the chat that he is tasked with including faster and easier ways to complete a project. The technologies he uses are drones, VR, clash detection.

Bruce reiterated some of the topics discussed in the meeting. He would like to know more about the recruitment capabilities of the college. He also wants faculty to come to the advisory members for help in this endeavor.

**VII. Adjournment:** 1:40 pm

Please take our advisory committee survey. Link below. Thank you!

