HISTORY OF THE GEOGRAPHY, PLANNING, AND RECREATION
DEPARTMENT (Focus on Geography and Planning)

"One who dares to teach must never cease to learn."

Brief History of the Geography and Public Planning Academic Unit

The Department of Geography and Public Planning at NAU has evolved through eight distinct phases:

1). Geography as a Class: Pre-1934 period when very little geography was offered.
2). Geography as an Area of Study: 1934-1967 period when geography was offered on a regular basis, but there was neither a major nor departmental status.
4). The Department of Geography: 1973-1985 period when departmental status was attained and a period of stability ensued with six full time faculty members.
5). Geography's Second Period of Growth: 1985-1991 a period of growth with the Department reaching ten full time faculty; entry into the computer age; major program revisions and expansion.
6). Geography's Transition: 1991 to 1993 when the department merged with the School of Forestry, prepared to move to a new building, and began collaborating on curriculum with Forestry.
7). Geography's Third Period of Growth: 1993 to 2003 when the Department of Geography and Public Planning and the School of Forestry combined to form the College of Ecosystem Science and Management (named in 1995). The programs complemented each other in many different ways and geography flourished under the arrangement reaching eleven faculty members.
8). Geography Today: The period from 2003 to the present when geography expanded the Department to include Parks and Recreation Management and became the Department of Geography, Planning, and Recreation.
1). Geography as a Class: Pre-1934 period when very little geography was offered. 
Prior to 1934, some geography courses had been taught intermittently in the then Normal School and later Teachers' College. While one faculty member was trained in geography, most of the time the courses were taught by people not specifically trained in the discipline.

2). Geography as an Area of Study: 1934-1967 period when geography was offered on a regular basis, but there was neither a major nor departmental status.
Dr. Agnes Allen, Professor Emeritus of Geography and Earth Science, arrived on-campus in June, 1934 to teach a course in “Geography of the United States” and to be the supervising teacher for 6th grade in the Training School. She expanded the geography course offerings and began teaching a course in geography each semester. Dr. Allen’s courses alternated between elements of geography and a course on North America. They later included physical and/or historical geology, physical science, and frequently an education course.

In 1942, Dr. Allen became acting head of the Science Department when the current head of the department left to do research during the war. Additional geography courses were offered under Dr. Allen’s direction and a minor was developed. From 1948 to 1958, Dr. Allen was head of the Science Department, which combined with math to become the Science and Math Division. Dr. Ron Ives joined the geography unit in the 1950s. He was one of the most prolific geographers of his time, publishing about a third of his articles on remote sensing and geology, about a third on history topics, and the remaining third on geography.

Lewis Deitch joined the Science Department staff in 1964 and taught two courses in Anthropology and two in Geography. During this period, Geography was in an “academic unit” in association with Anthropology (which was a department) and several other campus units. In the latter 1960’s, the academic unit initiated development of a major in Earth Science.

Mr. Deitch left the University in the spring of 1967 and Jack Healey became coordinator of the academic unit. Paul Crosby joined the academic unit staff in 1968. The number of geography courses increased as the faculty increased and majors and minors in geography were outlined. The academic unit also experienced an increase in class enrollment and the need for even more faculty.

In the fall of 1969, Lenn Berlin and John Duncklee joined the academic unit staff. By 1970, the geography staff had five full-time faculty and Mr. Duncklee assumed the position of program coordinator that year. From that point onward, the department transitioned quickly into an active and visible department on the campus. Sandy Salisbury replaced Dr. Ray in 1971 and assumed the
coordinator position in 1972. In 1972, Dr. Stanley Swarts replaced Dr. Allen following her retirement. One of Dr. Swarts' initial assignments was to head an interdisciplinary committee to develop a program in public service.

4). The Department of Geography: 1973-1985 period when departmental status was attained and a period of stability ensued with six full time faculty members.

The Center of Public Service was created in 1973 based on a grant proposal that was written several years earlier and included both public planning and transportation. Dr. Bauman was appointed as the Center director. Dr. Bauman left after one semester and Dr. Salisbury brought the Center of Public Planning into the geography academic unit, which technically became "geography, planning and transportation," though that name was seldom used. Today's Public Planning program is a legacy of that merger.

At this point, the academic unit had six FTE positions and Dr. Alvin Graves replaced Mr. Duncklee as the program coordinator. During 1973, the department relocated from the Science Complex of North Campus to the Center of Behavioral Studies in the new College of Public and Environmental Service located on the new South Campus.

During the 1974-75 academic year, the academic unit implemented two new interdisciplinary career-oriented programs. The cartography minor was developed in conjunction with the College of Engineering and provided students with the skills to obtain employment in a variety of cartographic areas. In addition, the Department of Physics and Astronomy provided students with the academic background to pursue careers in weather forecasting. Finally, the geography unit developed a new interdisciplinary minor in remote sensing (approved in 1975). In terms of personnel, Beverly Kaiser replaced Dr. Bauman, and Lewis Deitch returned to the department to replace Mr. Graves in 1974. Ian Jerome replaced Dr. Ron Ives, at close to 70 years of age, after his retirement in 1975. In 1977, George Van Otten replaced Ms. Kaiser.

The geography unit offered a new degree in Applied Geography in 1979, which emphasized remote sensing. This pre-professional degree allowed the student to select from one of five emphases: Cartography, Land Use Planning, Remote Sensing, Soils, and Weather Analysis and Forecasting. Also in 1979, Salisbury ended his term as Academic Unit Coordinator, Leonard Alger replaced Lenn Berlin, and Harry Tsutsui replaced Mr. Jerome. In 1980, Dr. Stanley Swarts assumed the Chair and Eric Karlstrom replaced Lewis Deitch. Also in the same year, the College of Public and Environmental Service was reorganized as the College of Social and Behavioral Sciences and the Academic Unit became the "Department of Geography, Transportation, and Public Planning," though it was simply referred to as the Department of Geography. The new department also hired its first department secretary at this time.
5). Geography's Second Period of Growth: 1985-1991 a period of growth with the Department reaching ten full time faculty; entry into the computer age; major program revisions and expansion.

In 1984, Dr. Tsutsui replaced Dr. Swarts as Chair and Dr. Christopher Lee was hired on a temporary basis to replace Dr. Alger who was on a leave-of-absence. With Alger's resignation in 1985, Mr. Lee remained on the faculty on a full-time temporary basis for another two years. The department participated in the development of the interdisciplinary MS program in Quaternary Studies. The department also conducted a self-evaluation and external review in the 1985-86 academic year, and during the following year began implementing changes. Three new courses were developed, eight courses deleted, new pre-requisites were added to nine upper division courses, and all cross-listings of courses with other departments were deleted.

Dr. Alan Lew was hired to replace Dr. Karlstrom, who resigned in 1986, and Lee Dexter was hired on a full time, temporary position, replacing Dr. Van Otten while he was on sabbatical. In 1987, Lenn Berlin returned to the department. At this time, geography faculty routinely taught 24 contact hours during the academic year (12 hours/semester). It is also important to note that Geography was also the only department in the College of Social and Behavioral Sciences, at the time, without a masters degree program.

In 1987-88, the department revised the public planning program to a 56 hour extended major and developed an MA program in rural geography (approved in 1990). In 1987, using continued enrollment growth and the pending MA program as justification, the department requested and received a reduction in the normal teaching assigned load to 18 hours per academic year (9 hours/semester). The department also formalized its name in 1988 to the Department of Geography and Public Planning.

By 1990, with enrollment growth, the department was given a new faculty line and Dr. Lee Dexter was added as a full-time permanent faculty member. Adjunct instructor staff were also added as Adjunct Associate Professors, including: Robert Clark, who at that time taught a variety of geography classes, and John Gliege, who taught planning law. R. D. Mower, Head of Aviation Division at Embry-Riddle Aeronautical University, was also employed to teach remote sensing as an Adjunct Professor.

To address student interests and job market demands, several changes were made in the applied geography major. First, the department developed a new emphasis in geographic information management and, second, the department deleted the emphases in land use planning, soils, and weather analysis and forecasting.

A new faculty line was given to the department in 1989 and temporarily filled for the year. In 1991, R. Dawn Hawley was hired as a lecturer to permanently fill the
position, and David Lee replaced Harry Tsutsui as Chair. These changes and addition brought the department to ten tenured and tenure-track faculty FTE.

6). Geography’s transition: 1991 to 1993 when the department merged with the School of Forestry, prepared to move to a new building, and began collaborating on curriculum with Forestry.

Until July, 1992, the Department of Geography/Public Planning was one of six departments in the College of Social and Behavioral Sciences; the others being Anthropology, Criminal Justice, Political Science, Psychology, and Sociology and Social Work. In July 1992, the Department of Geography and Public Planning was transferred administratively to the School of Forestry. This transfer was accomplished with a minimum of inconvenience and acrimony. On July 1, 1992, Geography and Public Planning was administratively reassigned from the College of Social and Behavioral Sciences to the School of Forestry. The department was not only administrated within the School of Forestry, it physically moved from the Anthropology & Geography Building to the new building, the Southwest Forest Science Complex, which was completed in December, 1992. Geography faculty were also involved in planning the move of the Parks and Recreation program from the College of Health Professions to the School of Forestry at this same time.

Another major change within the department was reexamining the department’s curriculum. Changes were made to course offerings and major requirements. The Applied Geography major was divided into two emphasis areas: Remote Sensing and Geographic Information Management. These areas were enhanced through collaboration with the School of Forestry in areas of overlap. At the same time, geography faculty began to teach in forestry classes, in particular undergraduate environmental studies and conservation courses, and undergraduate and graduate GIS and aerial photography classes. Meanwhile, the M.A. in Rural Geography graduate program proved to be a great success with 20 students enrolled by its third year. Also at this time, department faculty contributed to teaching on the university’s Interactive Instructional Television (IITV) to distance education sites around the state.

7). Geography’s third period of growth: 1993 to 2003 when the Department of Geography and Public Planning and the School of Forestry combined to form the College of Ecosystem Science and Management (named in 1995). The programs complemented each other in many different ways and geography flourished under the arrangement reaching eleven faculty members.

In 1993 organizational changes took place as the School of Forestry, with Geography and Public Planning as an ill-defined co-department, formed a new College with a Department of Geography and Public Planning and a School of Forestry as its two primary units. The College was housed in the Southwest Forest Science Complex and was comprised of the School of Forestry, which consisted of Forestry and the program in Parks and Recreation Management and
the Department of Geography and Public Planning, which includes both Geography and Public Planning program.

In 1994 Dr. George Van Otten became the chair of the department. In January 1995, Dr. Carolyn Daugherty joined the department as an assistant professor and in Fall 1995, Dr. Christina Kennedy joined the department as an associate professor. Dr. Kennedy represented a new faculty line, bringing the total faculty to eleven. 1995 was also the year that the College was formally named the College of Ecosystem Science and Management (CESM).

Faculty with strong research agendas were allowed a reduced teaching load of 15 credit hours a year at this time (9 hours one semester and 6 hours the other semester). A major period of student recruitment began in 1996, which marked the beginning of a strong and steady increase in geography and public planning majors that has continued to 1999. The department also established an Office of Rural Resource Management and Planning to serve the planning needs of rural Arizona.

In 1996, the department revised the Public Planning degree to include two emphasis areas: the traditional Land Use Planning emphasis and a new Environmental Planning emphasis. Dr. Van Otten served as department chair until Spring 1998, when he stepped down, and shortly thereafter retired from NAU after more than 20 years at the University.

Also, in spring 1998, Dr. Stanley W. Swarts decided to retire; after teaching in the spring he retired from service at NAU and is now an emeritus faculty member. Samantha Arundel began teaching for the department on a temporary basis in 1994 and was hired as Dr. Swarts’ permanent replacement in the spring of 1999. Also, in 1998 the department awarded the first Agnes Allen Geography Scholarship which continues today.

Dr. Robert O. Clark, replaced Dr. George Van Otten as department chair in spring semester 1998. Dr. Clark’s background brought considerable academic department experience to the position and continued to strengthen the student recruitment success of the department. In that same year, Dr. Stan Salisbury took a permanent leave-of-absence. In Spring 1999, Dr. Alan Lew offered the departments first complete web-based class, although at least half of the department’s courses were web-enhanced by this time.

During this period, undergraduate majors in all of the department’s degree programs increased from about 50 in 1990 to about 250 by 1999. Due to the considerable increase in majors, along with a decrease in full time faculty due largely to retirements that have not yet been fully filled, department human resources were stretched to their limits for teaching and advising. As a result, the department relied heavily on part time faculty to assist in meeting its teaching needs and all full-time faculty have returned to an 18 hours a year teaching load.
Public Planning and the Applied Geography: Geographic Information Management were major areas of interest for the department's incoming undergraduate majors. The Public Planning: Environmental Planning Emphasis degree, in particular, has became very popular since its inception in 1997, but the growth in this major was restricted due to limited faculty resources. The Rural Geography graduate program remained quite popular during this period with about 35 or more students enrolled at any given time.

The department continued to work closely with the School of Forestry with plans to offer a certificate program in GIS that would involve faculty and coursework from both departments. New certificate programs were also proposed in Remote Sensing, Land Use Planning, and Environmental Planning.

Faculty research efforts were very strong during this period with large grants and contracts being secured in the areas of remote sensing and GIS. Faculty were also very active in national and international geographic associations, publishing books and articles in leading journals of the discipline and their specialty area, and serving on journal editorial boards. In Fall 1998, the department hosted the annual meeting of the Association of Pacific Coast Geographers, and since early 1999, the journal Tourism Geographies (published by Routledge in the UK) has been editorially based out of the department.

Don Arganbright became interim Dean in 1999 and was then appointed Dean of the College of Ecosystem Science and Management in 2001. Due to a variety of internal issues, the relationship between the college units began to crumble and eventually led to the break-up of CESM.

8). Geography today: The period from 2003 to the present when geography expanded the Department to include Parks and Recreation Management and became the Department of Geography, Planning, and Recreation. Don Arganbright returned to the Forestry faculty in 2002 and Bob Clark became Interim Dean of CESM. At that same time, Alan Lew was appointed as Interim Chair of the Department of Geography and Public Planning. Joy Mast also left the Department at about the same time. The Graduate GIS Certificate Program was approved and admitted the first students in January, 2002.

In Fall 2002, the Parks and Recreation Management (PRM) program asked to join GGR/PL to be aligned with a department and faculty members who were more engaged in education and student development. Based partially on this realignment, the School of Forestry chose to leave CESM and the College was dissolved.

Alan Lew was appointed Chair of Geography and Public Planning, however, due to severe statewide budgetary constraints, Dr. Lew's regular line was not filled and Dr. Clark's Senior Lecturer line also remained unfilled while he served as Interim Dean. Excluding Dr. Clark there were 8 faculty members in the
Department at this time (Drs. Arundel, Dexter, Daugherty, Berlin, Paradis, Kennedy, Hawley and Lew). Dr. Ray Huang was hired in 2003 to replace Joy Mast and Mr. Scott Walker was hired as an Instructor under Prop 301 funding to support the GIS Graduate Certificate Program. This brought the number of GGR/PL faculty to 10, although Scott's position was only funded for three years.

On July 1, 2003, GGR/PL officially merged with PRM. The Department became Geography, Planning, and Recreation (GPR) and was administratively assigned to Arts and Sciences. When the Parks and Recreation Management faculty joined Geography and Public Planning, they added four faculty lines: Dr. Pam Foti, Dr. Chuck Hammersley, Ms. Judy Hammersley, and Mr. Steve Dodd.

By the end of 2003, and in response to President Haeger's restructuring initiative, discussions were underway with the School of Hotel & Restaurant Management, the Chair of Civil and Environmental Engineering, and the Chair of Construction Management about creating a new College of Professional Programs. In addition, the Department was invited to re-join the College of Social and Behavioral Sciences once again (the Department had left this College in 1993).

On July 1, 2004, the Department of Geography, Planning and Recreation was reassigned to the College of Social and Behavioral Sciences. However, the Department remained in the Southwest Forest Sciences building until May, 2006.

In Fall, 2005, the first students were welcomed into the MS in Applied Geographic Information Science degree. In addition, the Applied Geography degree changed to the B.S. in Geographic Information Science. Also in Fall, 2005, the Parks and Recreation Management Program received a new position (with $10,000 from the Department budget) and Dr. Kevin Tatsugawa was hired as an Assistant Professor to direct the Outdoor Education/Leadership emphasis area. In 2005, Dr. Tom Paradis was appointed as the Director of University Assessment and Dr. Jim Sell was hired as a Visiting Assistant Professor.

In January, 2006, Dr. Pam Foti, a faculty member in the Parks and Recreation Management program, was appointed Chair of the Department of Geography, Planning, and Recreation. The Department moved to SBS-West (Building #70 - the old business building) in May, 2006. Also, in Spring 2006, the Community Planning Emphasis as part of the online Master of Applied Administration was approved and formally offered to students in Fall, 2006.
The Geography and Public Planning Programs Today:

The Geography and Public Planning programs have a rich history and a bright future at Northern Arizona University; they are an integral component of the community of scholars on campus. The current GGR/PL programs are deeply involved in the University through Liberal Studies, Diversity courses, majors, minors, graduate students, inter-disciplinary programs, distance learning, and all forms of University service. The faculty are also actively engaged in their respective disciplines and not only share the joy of teaching with their students, but also seek out grants and contracts, presentation and publishing opportunities, and service learning opportunities for their students. All of the programs in the Department are responsive to both global trends and transitions and learner-centered education. The fabric of the Department will continue to unfold as opportunities and challenges present themselves; Geography, as one of the foundations of a university education, will continue to thrive.

"Of all the disciplines, geography is the one that has caught the vision of the study of the earth as a total system, and it has strong claims to be the queen of the human sciences." (Boulding, 1966)

Geography and Planning Faculty:
(See attached faculty information sheet; see curriculum vitae on attached CD)
  Dr. Samantha Arundel, Ph.D., Associate Professor
  Dr. Lenn Berlin, Ph.D., Regents' Professor
  Dr. Carolyn Daugherty, Ph.D., Associate Professor
  Dr. Lee Dexter, Ph.D., Professor
  Dr. Dawn Hawley, Ph.D., Professor
  Dr. Ray Huang, Ph.D., Assistant Professor
  Dr. Christina Kennedy, Ph.D., Professor
  Dr. Alan Lew, Ph.D. Professor
  Dr. Tom Paradis, Associate Professor and NAU Director of Assessment
  Dr. Jim Sell, Ph.D., Visiting Assistant Professor
  (Current Replacement for Dr. Paradis)

Geography and Planning Staff
  Debbie Martin, Administrative Assistant
  Ke-Sheng Bao, Support Systems Analyst
Geography and Planning Academic Programs
(See attached advisement sheets for course requirements)

B.S. in Geography
B.S. in Geography (Extended Major)
B.S. in Geographic Information Science (Extended Major)
B.S.Ed. in Geography Secondary Education
B.S. in Public Planning (Extended Major)

Minor in Cartography
Minor in Community Design
Minor in Environmental Planning
Minor in Geographic Information Systems
Minor in Geography
Minor in Physical Geography
Minor in Remote Sensing

M.A. in Rural Geography
  (Non-Thesis Plan, Thesis Plan; Community Planning, Human Geography, Physical Geography)
M.S. in Geographic Information Science
  (Non-Thesis Plan, Thesis Plan)
Master of Administration with Community Planning Emphasis (on-line)
Graduate Certificate in Geographic Information Systems

Geography and Planning Courses
(See attached Catalogue Copy for course descriptions)

**Undergraduate Geography**
GGR 230: Map and Image Interpretation (3)
GGR 239: Introduction to Geographic Information Systems (3) Liberal Studies
GGR 240: World Geography I – West (3) Liberal Studies
GGR 241: World Geography II – East (3) Liberal Studies
GGR 246: The American Experience (3)
GGR 248: Foods of the U.S. (3) Liberal Studies
GGR 250: Physical Geography (4) Liberal Studies
GGR 259: Landforms and Physiographic Regions (3)
GGR 330: Cartographic Design (3)
GGR 331: GIS Principles I (4)
GGR 346: United States (3) Liberal Studies
GGR 370W: Cultural Geography (3) Liberal Studies
GGR 371: Urban/Economic Geography (3)
GGR 376: Regional Geography of Tourism and Recreation (3) Liberal Studies
GGR 380W: Geographic Thought and Methods (3) Liberal Studies
GGR 422: Remote Sensing Techniques I (4)
GGR 423: Remote Sensing Techniques II (4)
GGR 424: Remote Sensing Techniques III (2)
GGR 433: GIS Principles II (4)
GGR 435: GIS Programming I (4)
GGR 436: GIS Programming II (4)
GGR 437: GIS Analysis I (4)
GGR 438: GIS Analysis II (4)
GGR 451: Snow and Ice in our Environment (4)
GGR 453: Quaternary Environments (3)
GGR 457: Biogeography (3)
GGR 461: Fundamentals of Weather and Climate (3)
GGR 462: Weather and Climate II (3)
GGR 480C: Field Analysis

Graduate Geography
GGR 522: Remote Sensing Techniques I (4)
GGR 523: Remote Sensing Techniques II (4)
GGR 524: Remote Sensing Techniques III (2)
GGR 525: Geographic Information Systems (4)
GGR 531: GIS Principles I (4)
GGR 533: GIS Principles II (4)
GGR 534: Exploring Spatial Data (4)
GGR 535: GIS Programming I (4)
GGR 536: GIS Programming II (4)
GGR 537: GIS Analysis I (4)
GGR 538: GIS Analysis II (4)
GGR 545: Arid Lands (3)
GGR 546: Arizona and the Southwest (3)
GGR 547: Mountain Geography (3)
GGR 574: Rural Economic Geography (3)
GGR 576: Geography of Tourism and Recreation
GGR 642: Rural Spatial Patterns (3)
GGR 681: Geographic Thought and Methods (3)
GGR 687: Professional Development Seminar (1)

Undergraduate Public Planning
PL 201: Introduction to Planning and Land Use (3)
PL 301: Planning Law (3)
PL 302: Environmental Planning (3)
PL 303: Design and Preservation (3)
PL 306: Public Participation (3)
PL 308W: Land Use Policy (3)
PL 376: Sustainable Tourism (3) Liberal Study
PL 401: Planning Permitting and Review (2)
PL 402W: Environmental Impact Statements (3)
PL 405C: Planning Studio (4)
PL 406: Planning Analysis (3)
PL 407: Planning on Public Lands (2)
PL 431: Map and Site Plans (4)
PL 432: GIS for Planners (3)

Graduate Public Planning
PL 501: Communities and Public Planning (3)
PL 506: Planning Analysis (4)
PL 531: Map and Site Plans (4)
PL 532: GIS for Planners (3)
PL 543: Urban Transportation Planning (3)
### Geography and Planning: Number of Majors

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### Geography and Planning: Number of Minors

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### Geography and Planning: Number of Graduate Students

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### Geography and Planning: Student Credit Hour Production

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Geography & Public Planning Faculty

Samantha Arundel, Ph.D., Associate Professor (B.S., Northern Arizona University; M.A., Ph.D., Arizona State University 1999) Climate Change, Plant Geography, Arid Southwest, GIS and Spatial Modelling, and Remote Sensing. NAU since 1995.

G. L. (Lenn) Berlin, Ph.D., Regents' Professor (B.S., Clarion State College; M.A., Arizona State University; Ph.D., University of Tennessee 1970) Remote sensing, arid lands, geomorphology, natural hazards. NAU 1969–81, and since 1987.

Carolyn M. Daugherty, Ph.D., Associate Professor (B.S., M.S., Ohio State University–Columbus; Ph.D., Arizona State University 1987) Rural and Small Town Planning, Site Planning, and Environmental Resource Planning. NAU since 1995.

Leland R. Dexter, Ph.D., Professor, and GIS Programs Coordinator (B.S., M.S., Northern Arizona University; Ph.D., University of Colorado–Boulder 1986) GIS, Computer Cartography, Geomorphology, Climatology, and Highland Geography. NAU since 1989.

Ruihong 'Ray' Huang, Ph.D., Assistant Professor (B.S., Hunan Normal University, China; M.S., Zhongshan University, China; Ph.D., University of Wisconsin–Milwaukee 2003) Geographic information systems, spatial statistics, urban transportation planning, land-use planning, geomorphology. NAU since 2003.

R. Dawn Hawley, Ph.D., Professor (B.A., Baylor University; M.A., University of Nebraska–Omaha; Ph.D., Arizona State University 1994) Public Land Policy, Economic Geography, Urban Geography, GIS. NAU since 1991.

Christina B. Kennedy, Ph.D., Professor, and Geography Programs Coordinator (B.A., University of California; M.A., Ph.D., University of Arizona 1989) Landscape studies, environmental perception, geography of film, resource management, environmental studies. NAU since 1995. [Also administers the M.A. in Rural Geography degree program.]

Alan A. Lew, Ph.D., AICP, Professor (B.A., University of Hawaii–Hilo; M.A., M.U.P., Ph.D., University of Oregon 1986) Tourism, urban planning, East and Southeast Asia, United States, GIS. NAU since 1986. [Also administers the Community Planning emphasis in the Master of Administration degree program.]

Thomas W. Paradis, Ph.D., Associate Professor, and NAU Director of Assessment (B.S., Pennsylvania State University–University Park; M.A., Ph.D., University of Illinois–Urbana-Champaign 1997) Cultural and historical geography, rural and urban development, tourism, historic preservation, cartography, United States and world geography. NAU since 1997.