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Agenda Items:

- 1. Dean Runge addressed the group on the importance of adhering to the policy of not allowing a student to continue to attend class after he/she has been dropped for non-payment. Chairs were asked to please discuss this with their faculty members.
- 2. Dean Runge reminded the chairs of the importance of not posting anything about students on Facebook. Chairs were asked to please discuss this with their faculty members.
- 3. The use of the Academic Planning Forms (previously distributed) were discussed. The 5-year plans for each department and interdisciplinary program must be in place by April 2013. Substantially completed drafts are to be completed and delivered to the Provost's Office by April of this year. Dean Runge set the deadline of April 2, 2012 for the chairs to submit their drafts to the Dean's Office.
- 4. The importance of strategic enrollment management (SEM) and the upcoming SEM Works Consulting Team's visit to UCA was discussed.
- 5. The latest draft of the budget for the new science building was discussed and materials from architect Gene Castin was reviewed.
- 6. The Willard and Pat Walker Foundation has made a donation of \$50,000 to endow a scholarship for students pursing degrees in life science or physical science (i.e. biology, chemistry or physics) and Dr. Sue Griffin has generously donated an additional \$50,000 towards the construction and maintenance of a new planetarium.
- 7. The CNSM Diversity Plan was reviewed and activities related to this plan were tabulated. A report on our activities will be submitted to Deans Maurice Lee and Neil Hattlestad, Co-Chairs of the HLC Monitoring Report Writing Committee.
- 8. The CoC was joined by the faculty members who had attended the ABET Workshop on Sustainable Assessment in February 2011. Attending that workshop were Drs. Steve Runge, Carl Frederickson, Ramesh Garimella, William Slaton, Patrick Carmack, Rick Tarkka, Don Perry, Yu Sun, Krista Peppers and Ms. Leah Horton. Each department and the Ad hoc Committee on CNSM General Education Assessment delivered progress reports on their assessment efforts. Successes were noted as were obstacles and strategies to surmount those obstacles. It was agreed unanimously that the group would convene again in six months for a follow-up session. The Dean's Office will be funding the travel for a second cohort of faculty members to attend an ABET workshop in February 2012. This group will include mostly new attendees and some people who will attend for a second time. Dean Runge will again be leading this trip.

Minutes of Chairs Council Meeting – January 26, 2012

A meeting of the Chairs' Council of the College of Natural Sciences and Mathematics was held Thursday, January 26, 2012. All chairs were present.

Agenda Items:

- 1. Minutes from the 12-12-11 CoC were approved as amended.
- 2. The SEM Works Consulting visit was discussed. Dean Runge reported on a very productive meeting that included the consultant (Dr. Lynda Wallace-Hulecki), Provost Grahn, Dr. Runge, Dr. Frederickson and Leigh Ann DenHartog. All of the chairs and several CNSM faculty members met with consultants. It was unanimously agreed that many creative and effective concepts will be implemented that will greatly benefit our college and university. The consulting team was on campus January 23 26, 2012.
- 3. A copy of an email concerning the conflict of interest statements and extra income statements from Jack Gillean, UCA Chief of Staff, was distributed and discussed.
- 4. Copies of the list of students and faculty mentors who received SURF awards for 2012 were handed out to the chairs. Dr. Addison reported that UCA was down in its number of submissions this year and it was agreed that we must be more aggressive in our effort to encourage students to make proposals. Following the SURF proposal format when students apply for internal (department and college-level) grants was discussed. Dean Runge will propose the idea to Dr. Jeff Padberg, Chair of the CNSM Research Committee, so that the committee can provide feedback.
- 5. The latest cost estimates for the new science building were discussed. Dean Runge asked the chairs to get feedback on the new building by noon on 1-31-12.
- 6. The current list of the CNSM Advisory Board members was distributed. Dean Runge reported that he has met with enthusiasm from all potential board members. The Dean's office is in the process of finalizing the details and expects to convene an initial board meeting within the next two months.

Miscellaneous Announcements and Reminders:

- 1. Dean Runge announced that the Dean's Advisory Board is working on implementation of the plan for college-level faculty awards and for a college awards event. Details will be forthcoming.
- 2. In an effort to reach a more diverse audience, Dean Runge announced that UCA would be able to advertise positions in Latinos in Higher Education next year.

- 3. Dean Runge announced that he has been appointed to the search committee for the Director of Admissions.
- 4. Dr. Frederickson reported that he is on the search committee for the Assistant Director of Learning Communities.
- 5. Dr. Frederickson also announced that the Outstanding Student nominations are due to the college office within the next two weeks.
- 6. Dr. Frederickson asked the chairs to remind new faculty to use start-up funds by the middle of May.

Chairs Reports:

Biology:

 Dr. Cash reported that Biology Department's search for the vacant Plant Molecular Biology is progressing. A candidate will be on campus next week for an interview.

Chemistry:

 Dr. Mauldin reported that he has been appointed to the Registrar's Search Committee.

Physics:

- Dr. Addison reported that on January 9-12, 2012, Dr. Debra Burris and Physics students, Matt Hankins, Jacob Teffs, and Tristan Odekirk presented results of their research at the 219th meeting of the American Astronomical Society held in Austin, Texas.
- At the end of the winter holiday, Physics students Shelby Burns and Ashley
 Hicks attended the Southeast Conference for Undergraduate Women in Physics.
 The four-day conference was hosted by the University of Tennessee, Department
 of Physics.

Minutes of Chairs Council Meeting – January 30, 2012.

A meeting of the Chairs' Council of the College of Natural Sciences and Mathematics was held Monday, January 30, 2012. All chairs were present except for Dr. Addison. Ms. Cheryl Lyons was a guest.

Agenda Items:

- 1. Minutes from the 1-26-12 CoC were approved as amended.
- 2. Minutes from the 1-10-12 CNSM Mid-Year Retreat were approved as amended.
- 3. Ms Cheryl Lyons, Director of Student Financial Aid, addressed the council on Title IV compliance. Ms. Lyons distributed material titled Title IV Federal Financial Aid Academic Issues to the chairs.
 - She reported that UCA disburses over 100 million dollars of financial aid to

Miscellaneous Announcements and Reminders:

 Dean Runge handed out copies of the letter from Dr. Jim Black, President & CEO of SEM Works, summarizing the information gathered at the SEM Works Consulting Visit, conducted January 23

4. Dean Runge indicated that the "white board list" (Capital Equipment) needs list in the VP for Finance and Administration office will be updated in March. The definition of capital equipment is items with an expected life of more than one year. The updated lists from each department should be in the Dean's office no later than February 20".

5.

Ramesh Garimella and Dr. Uma Garimella are the project directors. Activities for MSIT '12 are being planned for June 2012.

- For the calendar year 2011, the Department of Mathematics awarded 22 undergraduate degrees and 16 graduate degrees. Among the undergraduate degrees awarded, 13 were in math/applied mathematics and the rest were in mathematics education. Among the graduate degrees, six were in MS Applied Mathematics and the rest were in MA Mathematics Education.
- Ms. Sandi Weinert has joined the Department of Mathematics as Administrative Specialist I.
- Dr. Garimella gave the following update on the CCA Grant. The task force working to develop a course description for Quantitative Literacy under the CCA grant met in December and identified a list of topics for inclusion in the course. A sub-committee from the larger group met on January 23[∞] to consider further defining the content of the Quantitative Literacy course. Edits to the document have been made and proposed course description was finalized. Plans are underway to submit this course description to ADHE for consideration by the Higher Education Coordinating Board at its next meeting. The Quantitative Literacy course is intended as an alternative general education course to College Algebra for students who are non-STEM majors or whose degree program does not specifically require College Algebra. Dr. Charles Watson, Associate Professor of Mathematics, is facilitating the work of the CCA Committee to develop the Quantitative Literacy course.

Physics:

Dr. Addison reported that physics major, Ashley Hicks, recently visited Lakeside

COLLEGE OF NATURAL SCIENCES and MATHEMATICSMinutes of Chairs Council Meeting

Compensation to Meet Cost-Sharing Requirements
• Special Project: SPO as a

UCA collaborations as related to the computer science department were discussed.

• Ms. Karen Thessing was recently invited to and participated in an Introduction to Computer Science in Education event at UT Austin.

Math:

• Dr. Garimella reported that he and Dr. Jason Martin attended the ABET Assessment Workshop in Houston on February 18.

Physics:

- Dr. Addison reported that the UTeach proposal has been completed and successfully delivered.
- Dr. Debra Burris has been awarded the prestigious 2012 Educator Recognition Award by the AGATE (Arkansas for Gifted and Talented Education) Board of Directors. The award was presented to Dr. Burris at the AGATE Awards Banquet on February 9, 2012. Congratulations, Dr. Burris!

Chemistry:

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- Ms. Rebecca Smith, a senior mathematics major at UCA, has been accepted to the 2012 Summer Institute for Training in Biostatistics (SIBS) at Washington University in St. Louis. The SIBS is a 6-week all expense paid training program sponsored to pursue careers in the field of biostatistics.
- On March 10 approximately 140 high school students from central Arkansas participated in the Arkansas Council of Teachers of Mathematics Regional Contest held in the Department of Mathematics. The contests were held in Algebra I, Algebra II, Geometry, Pre-calculus and Trigonometry. Trophies were presented to the top three finishers in each category. Dr. Carolyn Pinchback, Ms. Loi Booher, Dr. Charles Watson, Dr. Steve Butcher, and Mr. Jon Sumner, and several graduate students in mathematics assisted with proctoring, grading, and trophy presentation.
- Last fall, Dr. Danny Arrigo, Professor of Mathematics, was invited by the
 Department of Mathematics at Tennessee Technological University to review its
 masters program. Last month during his onsite visit, Dr. Arrigo met with the
 mathematics faculty members and graduate students to examine the various
 aspects of the program for his official report.

Physics:

- Dr. Carl Frederickson has been appointed interim chair of the Physics and Astronomy Department.
- Physics student, Matt Hankins, has been awarded a Research Experience for Undergraduates (REU) grant at Cornell University in Ithaca, New York. The REU is funded by the National Science Foundation (NSF).
- Physics student, Ashley Hicks, has been awarded a Research Experience for Undergraduate (REU) grant at the University of Illinois at Champaign-Urbana. The REU is funded by the National Science Foundation (NSF).

14 graduates last academic year and will have 14 again this year. Based on preliminary enrollments in Physical Chemistry for fall of 2012, we predict that we will have 18 students who will graduate in 2012-2013 academic year. Not only do our numbers appear to be increasing, but also chemistry faculty members point to several indicators that the overall quality of our graduation class this year is particularly strong.

Computer Science:

• Dr. Hu reported that the Computer Science Department is receiving \$13,500 from Google to continue its CS4HS Workshop to train in service and pre-service teachers from July 9-11, 2012.

M. Collins, appeared in the April 2012 issue of the NCTM publication Mathematics Teacher.

Physics:

- Dr. Frederickson reported that Jackson Fliss (BS, Physics and Mathematics graduate, December 2011) and Tristan Odekirk (senior Physics major) attended the spring meeting of the American Physical Society in Atlanta, GA, March 31 – April 3. Jackson presented a paper titled Variational Symmetries and Conservation Laws of the Coupled Maxwell-Dirac Equactions, coauthored with Dr. Balraj Menon.
- The SPS held its spring picnic on Saturday, April 7th at the Cadron Settlement Park. Hot dogs and hamburgers were shared with students from the UCA ACS chapter. Faculty from both Physics and Chemistry attended.

Minutes of Chairs Council Meeting - April 23, 2012

A meeting of the Chairs' Council of the College of Natural Sciences and Mathematics was held Monday, April 23, 2012. All chairs were present except for Dr. Mauldin. Dr. Melissa Kelley represented the Chemistry Department.

Agenda Items:

- 1. Minutes from the 4-9-12 CoC were approved as amended.
- 2. The recent CNSM Advisory Board meeting was discussed. It was agreed that the all-day event was highly successful. Dates for future meetings were discussed. It was suggested that another all-day meeting be held this fall and half-day meeting be held next spring. Dean Addison asked the chairs to be considering topics to be addressed at the next meeting.
- 3. The Student Research Symposium was discussed. The symposium was held Friday, April 20th in the McCastlain Ballroom. The event has flourished over the years with an ever-growing attendance level. It was decided to change the venue next year to the Student Center Ballroom in order to accommodate the growth.
- 4. Dean Addison reminded the chairs that the forms for strategic planning are due to the Dean's Office by the end of May.
- 5. Dean Addison requested information about any English deficiency results and for a sense of the degree of satisfaction in evaluation measurements. The information will be forwarded to Clay Arnold for the ADHE report.
- 6. Dean Addison reported that the Provost will establish a General Education Task Force this summer and has asked the Deans to nominate a faculty member from each college.

Chairs Reports:

Biology:

- Dr. Cash reported that Wilson Alobuia has been awarded the Biology 2011-2012
 Department Best Departmental Thesis Award. Mr. Alobuia's thesis was titled
 Degeneration is Key Component of Neuronal Death in Amyloid-beta Toxicity. Dr.
 Bhupinder Vohra was his mentor.
- Biology faculty member, Dr. David Dussourd, has been named a finalist for the 2012 Teaching Excellence Award.

Chemistry:

- Dr. Kelley reported that Tsung Yen Chen has been given the 2011-2012 Best
 Departmental Thesis Award for his thesis titled Influences of Silver and Gold
 Nanostructures on Adsorption Characteristics of Organic Molecules. Dr. Don Perry
 served as his mentor.
- The Chemistry Department now has the MFAT results of 12 graduating seniors from the 2011-2012 (fall 2011 and spring 2012) academic year and that the average overall score is 159, which is at the 75th percentile.

Computer Science:

- Dr. Hu reported that Cody Hudson and Brendan Lee won the 2012 Outstanding Computer Science Students Awards.
- Computer Science faculty member, Lev Igolnikov, will be honored May 8th with a retirement reception in the Computer Science Department on the third floor of MCST.
- Cody Hudson won the 2011-2012 Best Departmental Thesis. His thesis was titled Predicting 3D Structure Via the Adaptively-Branching GGK-DF Model. Dr. Bernard Chen mentored Mr. Hudson.

Math:

• Dr. Garimella reported that Mathematics faculty member, Dr. Weijiu Liu, has

Minutes of Chairs Council Meeting - May 7, 2012

A meeting of the Chairs' Council of the College of Natural Sciences and Mathematics was held Monday, May 7, 2012. All chairs were present.

Agenda Items:

- 1. Minutes from the 4-23-12 CoC were approved as amended.
- 2. Dean Addison commended the college faculty on winning all three of the faculty awards presented at the annual service awards ceremony for 2012.
- 3. Dates for the annual chairs' retreat were discussed and it was decided that the retreat will take place Monday, June 18th, here on campus in the MCST boardroom.
- 4. The scheduling of council of chairs' meetings for the summer was discussed.
- 5. Dean Addison announced that the CNSM Uteach proposal was successful. UALR and U of A-Fayetteville also submitted successful proposals. Dean Addison and two CNSM faculty members will attend the 6th Annual UTeach Conference in Austin, Texas on May 30 June 1th. There will also be four conference calls over the summer with core team members.
- 6. Dean Addison asked the chairs to get information about thesis defenses into the Dean's Office early as possible so that the date may be put on his calendar. In addition, Dean Addison asked the chairs to send the draft for the thesis to him as soon as possible for him to review.

Chairs Reports:

Biology:

• Dr. Cash reported that Dr. David Dussourd won the Teaching Excellence Award at the 59th Annual Service Awards ceremony held April 25, 2012.

Chemistry:

- Dr. Mauldin reported that on April 26th the Department of Chemistry approved a departmental research application procedure, on a one-year trial basis, for assigning students to open research positions.
- At the same meeting, the department designated faculty subcommittees for developing performance indicators (and associated rubrics) to assess student learning outcomes, to be completed by the end of fall semester of 2012.

• Dr. Victor Sheng received a \$16,000.00 Research Experience for Undergraduates supplementary award from the National Science Foundation (NSF) for his project to involve undergraduates.

Math:

• Dr. Garimella reported that Dr. Ningjun (Nina) Ye

- Twenty-five teachers will be coming to campus from June 18th 23rd to go through science content training. The STEM Institute is collaborating with physics faculty member, Dr. Andrew Mason and biology faculty member, Mr. Jerry Mimms, on this project.
- The STEM Institute is collaborating with Arkansas Science Technology Authority (ASTA) and the University of Arkansas-Fayetteville to facilitate a one and half day professional development program for the Arkansas ASSET Initiative, a National Science Foundation EPSCoR project. Ten teachers will receive training on alternative sources of energy and a stipend of \$250.00.

Minutes of Chairs Council Meeting - August 13, 2012

A meeting of the Chairs' Council of the College of Natural Sciences and Mathematics was held Monday, August 13, 2012. All chairs were present.

Agenda Items:

- 1. Minutes from the 6-11-12 CoC were approved as amended.
- 2. The recent Board of Trustees retreat that reviewed the need for a new science building was discussed.
- 3. The key policy on campus was discussed. Dean Addison indicated that Lewis Science Center would be getting 10 real estate lock boxes but that such boxes will not work in the Math/Computer Science building.

4.

Chairs Reports:

Biology:

• No report.

Chemistry:

- Dr. Mauldin reported that the Department of Chemistry welcomes two new tenure-track faculty members: Dr. Bryce Marquis and Dr. Kristin Dooley.
- The Chemistry Department congratulates Dr. Karen Steelman on the approval of a sabbatical request for the spring and fall semesters of 2013.

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- Dr. Andrew Mason attended the 2nd Conference of Transforming Research in Undergraduate STEM Education (TRUSE) at the University of St. Thomas in St. Paul, Minnesota. He presented a poster at this meeting titled "Problem Solving Computer Coaches: Applications for Life Science, Education Majors," coauthored with Mishal Benson, a secondary science major at UCA and collaborators at the University of Minnesota.
- Dr. Mason also attended two meetings held on July 28-August 2 in Philadelphia, Pennsylvania. The Physics Education Research (PER) conference followed the American Association of Physics Teachers summer meeting. Dr. Mason presented a poster at the PER conference entitled "Adaptation of Introductory Physics Computer Coaches: Applications and Design," co-authored with Mishal Benson, a secondary science major at UCA and collaborators at the University of Minnesota.

Minutes of Chairs Council Meeting - August 27, 2012

Chemistry:

- Dr Mauldin reported that the Department of Chemistry spent \$5000.00 on chemical waste disposal in the summer of 2012.
- In the spring of 2012, the Department of Chemistry decided to adopt a procedure for research student selection and placement on a trial basis during the 2012-2013 academic year. The application deadline for students who want to sign up for research for the spring semester of 2013 is Monday, October 22, 2012.
 Applications are available on the department's website under the section entitled Research.
- Tutoring by chemistry majors Jordan Wilkerson, Amanda Hanson, Aaron Owen, Ryan Parker, and LiChen Chen will begin on Thursday, August 30ⁿ, and continue on Tuesday and Thursday evenings from 5:30-7:30 in Laney 105. Jordan Wilkerson will serve as head tutor and a total of three tutors will be available for each session.
- In July, Dr. Richard Tarkka attended a week-long workshop on Green Chemistry at the University of Oregon. The workshop is part of the cCWCS (Chemistry Collaborations, Workshops & Communities of Scholars) program that is sponsored by the NSF. Chemistry professors from around the country participated. The focus of the work was the evaluation of up to 24 different lab exercises for the organic chemistry sequence, all of which had major green chemistry themes. There were also presentations about toxicology, life cycle assessment, strategies for implementing green chemistry, and other related topics. Several experiments tested at the workshop, or under development at UCA, will be incorporated into the Organic Chemistry 2401/3411 sequence during the 2012-2013 academic year.

Computer Science:

 Dr. Hu reported that the Computer Science Club has become a student chapter of the Association for Computing Machinery (ACM), the world's largest educational and scientific computing society. To reflect this change, the CS Club phase out 5+5+3 calculus sequence in the following manner. We will offer new Calculus I (new # Math 1496) and Calculus II ((new # Math 1497) for the first time in spring 2013. However, for spring 2013 we will offer the old 3-hour Calculus III (Math 2371) course. Starting summer 2013 calculus I, Calculus II and Calculus III (new #Math 2471) will each be 4-credit hours.

• This summer Dr. Clarence Burg taught nine students in the Algebra II preparation class for the Upward Bound Summer Institute. He gave the same prtest/post-test as last year. This year the average score on the pre-test was 6 out of 32. The average score on the post-test was 28 out of 32.

Physics:

• Dr. Frederickson reported that the number of Physics majors is on the rise. There were 11 B.S. degrees awarded during the 2011/2012 academic year. The future

Minutes of Chairs Council Meeting – September 24, 2012

A meeting of the Chairs' Council of the College of Natural Sciences and Mathematics was held Monday, September 24, 2012. All

- accepted for publication in the Review of Higher Education and Self Learning (RHESL), Volume 5, Issue 16 (Fall 2012).
- Dr. R.B. Lenin, Assistant Professor of Mathematics, received a \$9,000.00 subcontract from UAMS to identify scheduling policy to achieve minimal waiting time while optimizing healthcare resources using MedModel software. He has been working with the OB/GYN Department at UAMS to develop computer simulation models for flows of outpatients at the Freeway Clinic and Financial Parkway Clinic, Little Rock, Arkansas, since Summer 2011.
- The Math Department's proposal to establish a 15-hour content track in the ASTL Program entitled "Elementary Mathematics Specialist," along with the new courses: Algebraic Thinking for K-8 Teachers (Math 5309) and Data Modeling for K-8 Teachers (Math 6312), has been approved.
- Ads for three tenure track positions in mathematics education and mathematics/applied mathematics have been placed in the Chronicle of Higher Education (both print and online), AMS website, the Journal of Blacks in Higher Education and other professional on-line sites.
- Dr. George Bratton has been named as the chair of Mathematics DPAC.

Physics:

 Dr. Frederickson reported that Physics faculty member, Dr. Debra Burris, had a full-page feature in the Ozark River Valley edition of the Log Cabin Democrat profiling her career with UCA and highlighting her successful outreach program.

Minutes of Chairs Council Meeting - October 15, 2012

A meeting of the Chairs' Council of the College of Natural Sciences and Mathematics was held Monday, October 15, 2012. All chairs were present.

Agenda Items:

- 1. Minutes from 9-24-12 CoC were approved as amended.
- 2. Copies of Dr. Charles Watson's report regarding the recommendations of the General Education Task Force were distributed. Dean Addison asked the chairs to review the report and send comments/recommendations to Dr. Watson. Dr. Watson will discuss the report and the chairs' input with the College Curriculum and Assessment Committee. The chairs were encouraged to attend the open forum presented by the General Education Task Force Wednesday, October 24th.
- 3. Dr. Ginny Adams, Associate Dean, discussed the many advantages of Digital Measures, the software package that UCA is adopting in late December of 2012 or early January 1013.

Miscellaneous Announcements and Reminders:

1. Dean Addison announced that Saturday, October 20th

Minutes of Chairs Council Meeting –

• Drs. Reid Adams, Dr.

that was accepted to the conference after peer review. The report was titled, *Quantitative*

- O Matt Hankins, Debra Burris, Arkansas Ancient Astronomy: The Point Remove Mound Complex.
- O Jeremy Jacobs, Steven Clark, and Debra Burris, *Determining the FWHM of the H-! Emission Line of Active Galactic Nuclei*

Minutes of Chairs Council Meeting - December 3, 2012

A meeting of the Chairs' Council of the College of Natural Sciences and Mathematics was held Monday, December 3, 2012. All chairs were present. Associate Dean Ginny Adams was absent.

Agenda Items:

- 1. Minutes from the 11-19-12 CoC were approved as amended.
- 2. Establishing a boot camp program for entering freshmen was discussed. Handouts of boot camp material from Louisiana State University and the University of Mississippi were distributed as examples. Dean Addison asked the chairs to nominate a faculty member from their department to serve on an ad hoc committee to consider the feasibility of the program.
- 3. Summer school profits were discussed. Using ARGOS, the percentage of profits gained will be ascertained and discussed at a future CoC meeting.
- 4. As it stands right now, there is no official update on Digital Measures.
- 5. Dean Addison met last week with Provost Runge to discuss the presentation to be made at the Board of Trustees meeting Friday, December 7th, for the new science building.

Miscellaneous Announcements and Reminders:

- 1. Dean Addison reminded the chairs to prepare the proper notification for their faculty on one-year contracts.
- 2. Dean Addison announced that the Arkansas Department of Education is interested in starting a program to bring 30 mathematic teachers from India to the state.
- 3. Sunday, December 2nd, Dean Addison had the privilege of attending the 90nd birthday celebration honoring retired physics faculty member, Dr. Maurice Ayers.

Chairs Reports:

Biology:

 Dr. Cash reported that 42 applications for the Cellular Biologist position have been received. A short list has been developed and phone calls will begin next week. • About 30 applications have been received for the Population Geneticist position. The committee is in the process of developing a short list.

Chemistry:

• Dr. Mauldin reported that on Friday, November 30th, he met with representatives