#selfie2014

a snapshot of the past year

aka Skaggs School of Pharmacy and Pharmaceutical Sciences
State of the School November 12, 2014
Ralph J. Altiere, Dean
In memoriam: George M. Anderson
1928-2013
Earned BS in Pharmacy from CU in 1954
Owner of Anderson Drug in Boulder 1955-1967
Was a president of State Board of Pharmacy, the Colorado Pharmacy Association and Colorado Society of Hospital Pharmacists
Awarded Distinguished Coloradan by the school in 1989

In memoriam: John A. Biles
2014
Alumnus who led the profession into an active clinical role
Longtime advocate for the profession of pharmacy
Leadership in transforming the profession from a dispenser of medicines to an active clinical role: product-centered to patient-centered
Recognized the need for pharmacists to be trained and function as clinicians on the healthcare team
Established first PhD in pharmaceutical economics and policy in 1990
Recreated formulas thus assuring the survival of Allergan, a world-wide pharmaceutical company
Awarded Distinguished Coloradan by the school in 1992
Skaggs School of Pharmacy and Pharmaceutical Sciences

OPERATIONS

About us
Accounting
Budget
Business
Employees
Financial
Management
Personnel
Policies
Projects

REVENUE SOURCES
UNRESTRICTED FUNDS

Tuition and fees
State appropriations
F&A

Grants/contracts
Clinical contracts
F&A
Endowment
Auxiliaries

UNRESTRICTED FUND EXPENDITURES

Compensation
Operational expenses

FACULTY SALARY SOURCES

Unrestricted funds
Sponsored Projects
Clinical contracts
Revenue Sources
- Endowment $237,961
- F&A $852,365
- State Funds $2,517,996
- Tuition & Fees $17,225,644
- Auxiliaries $13,832,049
- Grants/Contracts $15,477,999

Unrestricted Fund Expenditures
- Compensation 79%
- Other 21%

Faculty Salary Sources
- Unrestricted 58%
- Sponsored projects, clinical projects, Depts. 42%
Student Focused Expenditures

- New faculty hires
- New Assessment Director
- PCLC remodel underway
- Student development funds
- Student Focused Expenditures
- New experiential sites in community clinics
- New Student Services Staff
- Student Academic Coordinator
- Assistant Director of Admissions and Recruitment
- eValue
- Commencement activities
- Scholarships
- Online textbooks
- Support for campus-wide student programs
- IPE
- AHEC
- Bioethics and Humanities
- Student Mental Health
### SSPPS at a glance….

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students*</td>
<td>978</td>
</tr>
<tr>
<td>Residents**</td>
<td>14</td>
</tr>
<tr>
<td>Post-doctoral fellows</td>
<td>19</td>
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<tr>
<td>Faculty</td>
<td></td>
</tr>
<tr>
<td>Regular Faculty</td>
<td>70</td>
</tr>
<tr>
<td>Other Faculty***</td>
<td>1094</td>
</tr>
<tr>
<td>Staff</td>
<td></td>
</tr>
<tr>
<td>Administrative</td>
<td>40</td>
</tr>
<tr>
<td>Research</td>
<td>49</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>2264</td>
</tr>
</tbody>
</table>

*Students
- Grad students: total 43; PS 14; PS POR 5; Tox 24
- PharmD: 632
- DDP: Enrolled F13-S14 260

**Residents**: total 14; PGY1 – 6; PGY2 – 8 – Oncology, Family Med, Infectious Diseases, Critical Care

***Other Faculty**: Research, Clinical instructors, Preceptors, Instructors, Adjunct Professors, DDP instructors
ELPD Student Population and Demographics

Enrollment
- 57 MALE STUDENTS (36%)
- 102 FEMALE STUDENTS (64%)
- 159 TOTAL STUDENTS

Resident: 87
Nonresident: 72

Enrollment data Class 2018
- GPA (avg): 3.27
- PCAT composite (avg): 77.75
- Degrees earned: 143
- Age (avg): 25

Ethnicity
- White: 62%
- African American: 4%
- Hispanic: 7%
- Asian American: 25%
- *Other: 2%

*Other: American Indian, Pacific Islander
Welcome

Newest additions
Introducing SSPPS faculty members
Department of Clinical Pharmacy

Faculty photos

Amy Thompson
Ashley E. Glode
Meghan Jeffres
Nila Mahyari
Megan Thompson
Allison Blackmer
Introducing new staff

Kristina Proffitt

Brianna Maestas

Edward Nance
Faculty promotions  AY 2013-14
Peter Anderson, PharmD – Professor
David Bain, PhD – Professor
Richard Radcliffe, PhD – Professor
Laura Borgelt, PharmD – Professor
Robert Page, PharmD – Professor
Joel Marrs, PharmD – Associate Professor
Joe Vande Griend, PharmD – Associate Professor

New positions
David Ross – Associate Dean for Research
Gina Moore – Assistant Dean
Laura Borgelt – Associate Dean for Administration and Operations
Joe Vande Griend - Assistant Director of Clinical Affairs
EDUCATING FUTURE LEADERS FOR THE 21ST CENTURY

Entry-level Professional Program
  PharmD
Post-graduate Professional Programs
  NTPD degree
  ITPD degree
  Continuing education
Advanced Professional Training Programs
  Residency
  Fellowship
Graduate Degree Programs
  PhD
Post-graduate Training Programs
  Postdoctoral
Education Publications & Presentations

*American Journal of Pharmaceutical Education*

*Currents in Pharmacy Teaching & Learning*

*AACP Annual Meeting*

*FIP World Congress*

*ATBH International IPE Congress*
Faculty achievements in education

**CU President’s Teaching and Learning Scholar**

*Dr. Jodie Malhotra*

**AACP Innovations in Teaching Honorable Mention for Comprehensive Patient Care**

*Capstone course*

*Dr. Saseen, Linnebur, Borgelt, J. Trujillo, Fish and Mueller*

**2014 AACP Council of Faculties Administrative Board**

*Dr. Jennifer Trujillo*
President’s Excellence in Teaching Award
Ty Kiser, PharmD Skaggs School of Pharmacy and Pharmaceutical Sciences (Clinical Pharmacy)
*The President’s Excellence in Teaching Award winners are chosen by the senior classes in the schools/college of Dental Medicine, Medicine, Nursing, Pharmacy, and Public Health.*

Chancellor’s Teaching Recognition Award
Laura Borgelt, PharmD Skaggs School of Pharmacy and Pharmaceutical Sciences (Clinical Pharmacy and Family Medicine)
*Chancellor’s Teaching Recognition Award winners are named by the school- or college-wide student governance groups; a committee in each school/college, comprised of a student representative, a faculty representative, and an administrator, selects the winner.*
NAPLEX/MPJE

In 2014, 96% of our recent graduates who took the NAPLEX for the first time passed the exam, making 2014 the 7th year in a row that our graduates have surpassed the national pass rate for both the NAPLEX and MPJE (Multistate Pharmacy Jurisprudence Examination) licensing exams.

Over past three years, an average of 70% of students who applied for PGY1 residency matched
Education Award

The Education Award recognizes an ACCP member who has shown excellence in the classroom or clinical training site, conducted innovative research in clinical pharmacy education, demonstrated exceptional dedication to continuous professional development, or shown leadership in the development of clinical pharmacy education programs.

Joseph J. Saseen, Pharm.D., FCCP, FASHP, FNLA, BCPS, CLS, is professor and vice chair, Department of Clinical Pharmacy, University of Colorado Skaggs School of Pharmacy & Pharmaceutical Sciences; and professor, University of Colorado School of Medicine. Dedicated to education and training throughout his career, Dr. Saseen currently serves as chair of the pharmacy school’s curriculum committee, director or codirector of several courses in the pharmacy curriculum, and director of the university’s PGY2 pharmacy residency in ambulatory care/family medicine.

Fellow of ACCP and the American Society of Health-System Pharmacists (ASHP)

Former member of the Board of Regents

Recipient of the ACCP Ambulatory Care Practice and Research Network Achievement Award in 2011

Dr. Barry Carter, professor of pharmacy practice and family medicine at the University of Iowa College of Pharmacy, wrote in his letter of support:

I have had the opportunity to review and evaluate many gifted teachers including scores of dossiers for promotion and CV’s for award nominations. Dr. Saseen stands far above them all. I have never seen a faculty member who even comes close to receiving so many teaching awards. He has received 20 teaching awards at the University of Colorado including the Chancellor’s Teaching Recognition Award (twice), the President’s Award for Teaching Excellence (four times) and the teacher of the year award from the Family Medicine physician residency (twice). The remainder of his teaching awards were from Pharm.D. classes. Many of these are prestigious awards recognized by the Health Sciences Center and/or the four campus system of the University of Colorado.... In addition to his teaching in the classroom and in the clinic, Joe has been instrumental in incorporating innovations into the new curriculum at Colorado.... Dr. Saseen is the author or co-author of numerous book chapters that are used in the education of students and practitioners.... He has been a co-author for several ACCP whitepapers and education publications important for postgraduate education and training.
North American-Trained PharmD (NTPD) Program

16 years old
2nd largest in United States
For US and Canadian BS level practitioners
Largely online courses and in-person experiential training

International-Trained PharmD (ITPD) Program

Accredited by ACPE in January 2014
1st and only such program in the US
Enrolled first students August 2014
BS or equivalent level practitioners from around the world
Primarily online courses plus in-person experiential (IPPE & APPE)
Goal: train practitioners to advance pharmacy practice in home countries toward more clinical, direct patient care roles
RESEARCH HIGHLIGHTS

in nation for NIH and total funding #5

AMC basic science research NIH funding #1
RESEARCH Highlights

Colorado Antiviral Pharmacology Laboratory - Dr. Peter Anderson developed new test using a dried blood spot to test for adherence to HIV prevention drug Truvada. Application of the test showed drug adherence to 4 or more tablets per week thus far resulted in 100% efficacy or no HIV infections.

Barofold, Inc – Drs. John Carpenter and Theodore Randolph (UCB) received patent on improvements in protein-based drug formulations by reducing sub-visible particles that can cause adverse immune responses in patients.

Dr. Molly Huntsman – in August 2014 selected for distinction and scholarship by the American Physiological Society into APSelect – a collection of the best published articles in physiologic research.

Drug Design and Development Core facility for school, campus and external researchers.
The latest in the Department of Clinical Pharmacy – Awards and Recognition

Provide patient care that optimizes the use of medication and promotes health, wellness and disease prevention

Finalist (1 of 3) for the 2015 AACP Lawrence C. Weaver Transformative Service Award, recognizing a college or school of pharmacy demonstrating a major institutional commitment to addressing unmet community needs through education, practice and research - Dr. Gina Moore, faculty members and students

Dr. Joseph Vande Griend, PharmD, and the interprofessional collaborative project titled "Development, Evaluation, and Refinement of an Offsite Clinical Pharmacist Service within a University Family Medicine System" won an national AAMC Clinical Innovation Challenge Award from the American Association of Medical Colleges.

Dr. Ty Kiser received the ACCP Critical Care PRN Education Award 2014.

Dr. Rob MacLaren received the ACCP Critical Care PRN Research Award 2014 in recognition of outstanding and sustained research contributions in critical care pharmacotherapy.
The latest in the Department of Clinical Pharmacy – Awards and Recognition

Provide patient care that optimizes the use of medication and promotes health, wellness and disease prevention

<table>
<thead>
<tr>
<th>Community</th>
<th>Hospital</th>
<th>Counseling</th>
<th>Education</th>
<th>Consulting</th>
<th>Research</th>
<th>Outcomes</th>
</tr>
</thead>
</table>

**Dr. Joel Marrs**  
Inducted as Fellow of ACCP

**Dr. Cindy O’Bryant**  
Appointed as the representative for the University of Colorado Cancer Center on the National Comprehensive Cancer Network Cancer and Chemotherapy-Induced Anemia Guidelines

**Dr. Laura Borgelt**
**Dr. Jodie Malhotra**  
Recognized by Colorado Pharmacists Society as Pharmacist of the Year and Distinguished Young Pharmacist of the Year Awards

**Dr. Joel Marrs**
**Dr. Sarah Anderson**  
CDPHE recognition for their work in hypertension clinic at Denver Health Eastside Adult Medicine Clinic

**Dr. Jon Campbell**  
Gold Medal award for presentation at AMCP Annual Meeting
The latest in the Department of Clinical Pharmacy

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**DUR (Drug Utilization Review)**

**Contract with Colorado Medicaid ($>500K)**
- Collaboration by R Page, J Campbell, and G Moore
- Policy recommendations on: opioid utilization, psychotropic use in children, onabotulinum toxin and others
- Financial impact in 2013: $2.5M savings by altering PPI and H2 antagonist therapy

**Clinical Pharmacy Services at Salud Family Health Centers**
- SSPPS commitment to providing care for underserved populations
- Grant from The Colorado Health Foundation
- Drs. Jeff Freund and Emily Kosirog
- New student rotation sites
- DM, HTN and dyslipidemia management and transitions of care
- Student-run anticoagulation clinic
- Quality measure – improved patient health
The latest in the Department of Clinical Pharmacy

Provide patient care that optimizes the use of medication and promotes health, wellness and disease prevention

**MTM**
Provided MTM for Colorado Access patients at UCH Seniors Clinic, AF Williams Family Practice Clinic, and Internal Medicine clinics at AOP and Lowry
Innovative remote MTM services provided by Joe Vande Griende with family medicine clinics at Park Meadows, Westminster and Boulder
Partnering with CPS and RxPlus to establish sustainable MTM models in Colorado

**University initiatives/Collaborations/Clinical Contracts**

**New Ambulatory Care Clinical Pharmacy Services at High Street Clinic – Presbyterian/St. Lukes**
Angie Thompson hired to fill this joint faculty position

**New Ambulatory Care Clinical Pharmacy Services at Children’s Hospital**
Allison Blackmer hired to fill this joint faculty position

**Clinical Pharmacy Services at Sheridan Clinic**
Established clinical pharmacy services there under the direction and guidance of C Valdez
Continued expansion with students and an in-house 340B program

**Clinica Campesina**
Clinical pharmacy services continue with anticoagulation and insulin titration protocols
Submitted an expansion grant through CDPHE to add clinical pharmacy services at two additional Clinica locations
The latest in the Department of Clinical Pharmacy

Provide patient care that optimizes the use of medication and promotes health, wellness and disease prevention

1st Annual Colorado Consortium for Prescription Drug Abuse Prevention Meeting

The first annual Colorado Consortium for Prescription Drug Abuse Prevention was held on Oct. 3, 2014 at the School of Pharmacy hosted by Dr. Rob Valuck, Director. The meeting was attended by Attorney General John Suthers, representatives from Governor John Hickenlooper’s office, Senator John Kefalas, Senator Irene Aguilar, Representative Beth McCann and a number of medical professionals.
The latest in the Department of Clinical Pharmacy – In the News

Provide patient care that optimizes the use of medication and promotes health, wellness and disease prevention

Numerous faculty members interviewed in their areas of expertise by:

- Nature
- Journal of Controlled Release
- Science News Magazine
- Pharmacy Today
- Pharmacy Practice News
- 9 News, 7 News, KEZW
- LA Times
- CNN
Finalist (1of3) for the 2015 AACP Lawrence C. Weaver Transformative Service Award recognizing a college or school of pharmacy demonstrating a major institutional commitment to addressing unmet community needs through education, practice and research – Dr. Gina Moore, faculty members and students

NCPA Student Chapter
2nd runner up for NCPA Student Chapter of the Year

ACCP Student Chapter
Officially recognized By ACCP

ACCP Travel Awards
Rebecca Weinbar
Jennifer Kwon

National Compounding Competition Winners

Award
Christina Davis & Sarah Norskog
Top 10 poster at HOPA Annual Conference
P3 Matthew Nguyen, for our outreach program counseling community seniors about Medicare Part D plan selection

CSSHP:
National leadership positions for 2014-15:
- P4 student Caitlin Butler was appointed to the ASHP Pharmacy Student Forum's Community and eCommunications Advisory Group
- P3 student Rebecca Wienbar was appointed to the ACCP Educational Affairs Committee

Competition winners:
- P4 students Joselyn Benabe and Ashley Huntsberry will be representing SSPPS at the ASHP Midyear Clinical Skills Competition

SNPhA:
2 current P4 students won Honorable Mention at the Clinical Skills Competition at the SNPhA National Conference this past July in Arlington, VA.

Free Student Run Clinic (Primary Care Progress): started 2014 and hopeful to open doors by the end of the year
**Phi Delta Chi** hosted the 2014 Mountain Regional Conference and had a meeting attendance of approximately 150 total members from the CU chapter as well as chapters from schools and colleges of pharmacy from throughout the Rocky Mountain Region.

PDC also used the regional conference to commemorate the **100th Anniversary** of the Sigma Chapter, which was founded in **1914** and has been continuously active in the School of Pharmacy since that time.

In 2014 the chapter also won the **Dale W. Doerr Achievement Award**, which is a national award given to chapters who demonstrate excellence in their activities throughout the year and best embody the organization’s commitment to brotherhood, community service and philanthropy, and professional achievement.
Student Highlights Graduate and Postdoc Programs

AAAS Annual Meeting Graduate Student Awards
Ruchit Trivedi
Puneet Tyagi

MWSOT Student Awards and Recognition
Rui Xiong
Surendra Singh
Jonathon Shannahan

AMCP Annual Meeting Silver Medal Awards
Brett McQueen
Kelli Metz (with AMCP students and Medicare Part D outreach program)

Clinical Translation Science PhD Grant Award
Amandla Atilano-Roque

DeScience Competition at MIT Finalist
Georgia Charkoftaki

Keystone Symposium Scholarship
Cynthia Tilley
ACPE Accreditation Visit

Education
- Complete roll out of renewed curriculum P4 year
- Expand experiential offerings at existing and new sites
- Grow ITPD program
- Enhance IPE program
- Expand residency program to provide more opportunities in Colorado
- Embark of new education programs – MS programs, dual degree programs

Research
- Recruit additional faculty in key areas – metabolomics, pharmaceutical biotechnology, toxicology, clinical translational research, microbiome
- Enhance MS core facility as a school and campus resource
- Alcohol Research Center proposal
- Visiting professor program
- Support efforts in basic science, clinical translational and clinical research
- Develop key programmatic interdisciplinary research collaborations

Clinical
- Provider status and reimbursement for pharmacy services
- Student run clinic
- Enhance partnership with UCH and CU Health System
- ECHO program

Diversify Revenue Sources
- Entrepreneurial activities
- Fund raising

What’s ahead?
The Year Ahead - International

Goals
- Expand international opportunities for faculty and students
- Promote clinical pharmacy education and training to advance pharmacy practice worldwide

MOUs in place or underway with:
- Future University Cairo Egypt
- 57357 Children’s Cancer Hospital Cairo Egypt
- Kemerburgaz University in Istanbul Turkey
- Trinity College Dublin Ireland
- Monash University Melbourne Australia

Center for Global Health Guatemala Clinic
Interprofessional practice and education opportunity
Melissa Laub, P3, attended 60th IPSF World Congress in Porto, Portugal:
  - Finalist - patient counseling competition
  - First place - team clinical skills competition
  - Presented 'Vampire Cup' blood drive award

Representation in IPSF international leadership positions:
  - Melissa Laub, P3: Humanitarian Coordinator 2013-2014
  - Whitley Yi, P2: Pharmacy Education Committee Member

Student Exchange Program participation:
  - Paige Rice traveled to Lithuania in summer of 2014
FIP Involvement
Ralph Altiere, Doug Fish, Kari Franson, Jodie Malhotra

IPSF Activities
Melissa Laub, Meghan Lynch, Michelle Jong, Syed Nizami, Whitley Yi

Pharmabridge hosts for a pharmacist from Nigeria and another from Ghana March/April 2015

Developing educational programming for Global Health

Reviewing international APPE rotations and creating better process for students to participate

Goal - present at the ACCP Global Conference on Clinical Pharmacy in 2015 and the IPSF World Congress in Hyderabad, India 2015

ITPD/ELPD students joint development of a peer – pal system
Preparations for accreditation
Progress in all mission areas

Future endeavors are promising and exciting for students, faculty and the school

New campus leadership
Don Elliman – Chancellor
Lilly Marks - VPHA
New Dean SOM and VCHA TBD
New Dean Graduate School