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## **INTRODUCTION**

The Cardiovascular Perfusion Program at MUSC (formerly known as Extracorporeal Circulation Technology) was founded in 1979 by James P. Dearing.

Each year the James P. Dearing Memorial Scholarship is awarded in memory of a truly outstanding pioneer and achiever in the health care field. Rarely does one find a person so capable of molding the future while having a profound impact upon others. James P. Dearing was one of these people. He came upon the health care delivery scene at a time when open-heart surgery was in its infancy. Through both talent and dedicated hard work, he became one of the founding fathers of perfusion.

His lasting "tree of influence" is international in scope and can be seen today in both the clinical arena and the classroom setting. While at Ohio State University, he began the first academic based perfusion program in the country. Gradually he shifted his work emphasis towards education as a means of improving perfusion technology.

At the time of his entry into perfusion there were few academic credentials available. Professor Dearing worked to establish credentials acceptable to the academic world. After years of outstanding service at the Medical University of South Carolina, he achieved the rank of full professor. For his lifetime of work and professionalism, he was awarded the John H. Gibbon, M.D. award in 1987. He is only the second non-M.D. ever to be awarded such an honor.

## **CARDIOVASCULAR PERFUSION PROGRAM**

Cardiovascular Perfusion is a well-balanced academic and clinically based perfusion education program dedicated to safe, progressive patient care. The student is exposed to a rigorous education, which demands excellence in academic activities, clinical skills, research and professionalism. This program is designed to produce the perfusion technology leaders of the future.

Upon completion of the program, the student is awarded a Bachelor of Science (BS) in Cardiovascular Perfusion.

### **Department of Health Professions**

The Cardiovascular Perfusion, Anesthesia for Nurses and Physician Assistant, PT, OT, CSD, MHA(R) and Cytology comprise the Department of Health Professions in the College of Health Professions. Lisa Saladin, Ph. D is the Interim Chair and Executive Associate Dean and John M. Toole, M.D., is the Medical Director of the Cardiovascular Perfusion Program.

### **Life Support Department**

Cardiovascular Perfusion faculty and students practice in the Life Support Department at MUSC Hospital. The Life Support Department provides cardiovascular life support services in several care areas in the hospital.

# **CARDIOVASCULAR PERFUSION MISSION STATEMENT**

The Cardiovascular Perfusion Program Mission Statement reflects the goals of the University and College.

The Cardiovascular Perfusion Program Mission Statement reads:

The Cardiovascular Perfusion Program at MUSC and the MUSC Hospital Life Support Department strive to offer safe, quality patient care for the citizens of South Carolina, while providing effective educational opportunities for our students.

The program faculty, staff, and students will continually question the quality and validity of the clinical practice by vigorously participating in clinically based patient-centered research and outcomes assessment.

The faculty and students will be active in volunteer service, and in professional interdisciplinary and scientific communication in the Hospital, the University, the Community, and the professional world.

## **Cardiovascular Perfusion Program Goals**

The Cardiovascular Perfusion Graduate, with appropriate orientation -

- Will be able to take on-call after two months of employment.
- Can work patient up for Cardiopulmonary Bypass (CPB) and assess the patient's perfusion needs
- Will be able to understand patient's underlying physiologic disease and manage CPB
- Practice sterile technique and universal precautions.
- Will be able to follow sterile technique for set-up after two weeks of employment.
- Follow approved procedures and make judgments for the good of the patient
- Demonstrate problem-solving ability with little or no assistance.
- Will independently manage adult, pediatric, liver transplant and heart transplant cases.
- Follows adult, pediatric, heart transplant, liver transplant protocols after one month.
- Will be able to act as a successful clinical coordinator
- Will be capable of continued research and development within the field.
- Will be able to assess perfusion problems and design necessary research.
- Will be able to read and understand professional literature in the perfusion field.

## GENERAL INFORMATION

### Cardiovascular Perfusion Profession and Opportunities

Cardiovascular Perfusion is a very specialized allied health profession. The perfusionist is a highly trained member of the open-heart surgery team who is predominantly responsible for the operation of the heart-lung machine. In the operating suite, the cardiac catheterization laboratory, intensive care units and the emergency department, the perfusionist employs a number of highly technical devices that monitor, support and/or replace the functions of the patient's cardiovascular and/or pulmonary systems. The perfusionist must command extensive knowledge in human anatomy, physiology, pharmacology, pathology and surgical technique.

Hospitals in moderate to large cities usually have active open- heart surgery programs that require perfusion support. Heart disease continues to be a leading cause of mortality and morbidity in this country. Routine cardiac surgery, heart transplant, and specialty techniques and procedures should ensure that the demand for well-trained perfusionists would continue.

### Medical University of South Carolina

The Medical University of South Carolina (MUSC) is an academic health care center comprised of a 600-bed referral and teaching center with six colleges (Dental Medicine, Graduate Studies, Health Professions, Medicine, Nursing, and Pharmacy). MUSC's perfusion education program is in the Department of Health Professions of the College of Health Professions (CHP) (established 1965) at the Medical University of South Carolina. Cardiovascular Perfusion is one of twelve health professions residing in CHP.

MUSC is state-owned and is South Carolina's primary specialized academic health care facility. MUSC also houses a Children's Hospital where approximately 200 pediatric and infant cardiac surgeries are performed annually. MUSC has an active liver transplant, heart transplant, ventricular assist and ECMO program in which the Cardiovascular Perfusion faculty and students actively participate.

### Faculty and Staff

#### PROGRAM DIRECTOR:

Joseph Sistino, MS, MPA, CCP

#### FACULTY:

Jeff Acsell, BS, CCP  
Carla Bistrick, RN, CCP  
Adam Fernandez, CCP  
Ashley Hodge, BS, CCP  
Mary McCall, RN, MSN, CCP  
Nicole Michaud MS, CCP  
Anthony Shackelford, BS, CCP  
Alicia Sievert, MS, CCP

OFFICE STAFF:

Kelly Long, Student Support Services  
Admin. /Academic Support

MUH ATTENDING SURGEONS:

Scott Bradley, M.D.  
Fred A. Crawford, Jr., M.D.  
Tain Y. Hsia, M.D.  
John M. Kratz, M.D.  
John Ikonomidis, Ph. D., M.D.  
John M. Toole, M.D.  
William Yarborough, M.D.

CLINICAL AFFILIATE INSTRUCTORS

University of Alabama

Joseph Timpa, CCP  
Jeff Powell, CCP  
Jay Philips, CCP  
Cary Britnell, CCP

Arkansas Children's Hospital

Charles Johnson, RN, CCP  
Juan Tucker, CCP  
Sherry Faulkner, CCP  
Lynn Harness, CCP  
Wes McKamie, CCP

Brigham and Women's Hospital (Boston)

Daniel FitzGerald, CCP  
Michael Gilfeather, CCP  
William Riley, CCP  
Michael McAdams, CCP  
Giovanni Cecere, CCP

Carolinas Hospital System (Florence)

Randy Hart, CCP  
Mark E. Zarzuela, CCP  
Mary Murphey Hyman, CCP

Duke University:

Ian Shearer, BS, CCP (Director) Clinical Instructor  
C. Bob Clark, BS, CCP  
Kevin Collins, BS, CCP  
Sandra Harris-Holloway, BS, CCP  
David Kaemmer, BS, CCP, Clinical Instructor  
Andrea Lawson, BS, CCP  
D. Scott Lawson, BS, CCP  
Michelle Mann, BS, CCP  
Patty McDermott, BS, CCP  
Craig McRobb, BS, CCP  
Kathy Nanry, BS, CCP  
Calvin Rogers, CP  
Greg Smigla, BS, CCP  
Rich Walczak, Jr., BS, CCP  
Julie Walker, BS, CCP Clinical Instructor and Liaison

Greenville Memorial Hospital (Greenville)

Davis R. Gerrald, CCP, (Director) Clinical Instructor  
Carl Walker, CCP  
Melony B. Keller, CCP  
Nicholas Davis, CCP  
Susanna C. Holloway, CCP  
Leslie Curry, CCP

Medical Center of Central Georgia (Macon):

Karim Jabr, BS, CCP (Director)  
Anton Johnson, BS, CCP  
William Martin, BS, CCP  
Usha Shantha-Martin, BS, CCP  
John Pickett, BS, CCP  
Diane Walsh, BS, CCP

Shands Hospital University of Florida

Dale Clark, CCP, Chief Perfusionist  
Ron Learn, CCP  
Chris Sansing, CCP  
Maria Rodriguez, CCP

## Phone Numbers

On campus dial 2 followed by last four numbers, off campus dial 792-followed by last four numbers.

*Simon* Page System

792-0590 or 2-0590

Paging Operator

792-2123 or 2-2123

	<u>Cell Number</u>	<u>Pager Numbers</u>
Jeff Acsell	696-1697	11518
Carla Bistrick	532-0082	13025
Adam Fernandez	460-0389	12993
Ashley Hodge	530-6368	13417
Mary McCall	532-2425	11174
Nicole Michaud	388-7426	12979
Tony Shackelford	452-3440	12057
Alicia Sievert	330-9214	12128
Joe Sistino	696-4699	11298

Cardiovascular Perfusion Office

792-2298

Cardiovascular Perfusion Lobby

MUSC Pump Rooms

792-6552 / 6552

ART

876-4444

ART Pump Rooms

876-5373 / 5376

Lab

792-0238

Cath Lab 5<sup>th</sup> Floor

792-6113

PT Info

792-2300

Lab Results

792-4231

Bed Ctrl

792-3306

Children's Pharmacy

792-2800

ECMO

792-8268

OR lounge

792-9260

OR Desk

792-2221

OR 1

792-6455/ 792-5835 /

792-6442

OR 2

792-6472/ 792-5836 /

792-6494

OR 17

792-6377/ 792-6378 /

792-6380

VA

577-5011

VA OR Office

789-7331

VAOR #3

789-7879

VA Cath Lab

789-7294

VA Lounge

789-7462

## **Financial Assistance**

Financial aid information and applications are available from the Office of Student Financial Aid Services in the Harper Student Center.

The American Society of Extracorporeal Technology (AmSECT), the largest perfusionist professional organization, offers scholarships to students in accredited perfusion education programs. Scholarship applications may be obtained from the Office Manager.

An MUSC scholarship honoring Professor James P. Dearing was established by contributions made by his family, fellow faculty, former students and manufacturers in 1988. The award is given to an outstanding Cardiovascular Perfusion rising senior student who demonstrates academic achievement, intellectual potential and professionalism as evaluated by the faculty.

In-state status must be applied for (it is not automatic). The Office of Enrollment Services (Vince Mosely Building, 41 Bee Street) can provide the necessary information.

## **Daily Schedule Assignments**

The daily clinical schedule will be sent by pager between 4 and 5PM. Every effort will be made to have assignments sent during this time, however sometimes this is impossible due to clinical schedule and meetings. Further changes in the O.R. schedule or assignments will be sent by pager. All students issued pagers are required to keep their pagers on **at all times from 4:00 p.m. Sunday until 4:00 p.m. Friday**. In addition, “on-call” students must keep their pagers on when “on-call” as outlined in the on-call policy below.

Cell Phones are **NOT** allowed in classroom or clinical settings. Personal cell phones MUST be turned off completely during all scheduled class and lab time and while in the OR setting.

## **E-Mail**

Students of MUSC will be assigned an *e-mail* account. Instructors, the Dean’s Office and Administrative Departments will send students important information via *e-mail*. Students should check their *e-mail* daily.

## **CPR Certification and HIPAA**

Certified completion of Cardiopulmonary Resuscitation training for both adult and pediatric must be presented to the Office Manager within one week of beginning of fall semester each year. Students are required to maintain current certification until graduation. Verification of HIPAA training must be provided within the one week of beginning program each year. Training may be done on-line through the MUSC provided website located at: <http://www.musc.edu/medcenter/hipaa/>. Student are required to maintain their clinical folder in SharePoint so that all the necessary files are available for clinical rotations.

## PROFESSIONALISM

### Professional Conduct

Each student enrolled in the College of Health Professions is expected to follow the code of professional conduct found in the MUSC Bulletin and adhere to the AmSECT Code of Ethics.

- Under the code of professional conduct, a student enrolled in the College of Health Professions is expected to:
- Appear and conduct himself/herself in a professionally acceptable manner.
- Be cognizant of and adhere to the channels of authority.
- Be academically and professionally honest.
- Show respect for and be mutually supportive of fellow students, faculty, and staff regardless of race, religion, sex, nationality or economic status.
- Identify truthfully and accurately his/her credentials and professional status
- Refrain from performing any professional service which requires competence that he/she does not possess or which is prohibited by law.
- Accept responsibility for relating incompetence and unethical conduct to the proper authorities.
- Regard as strictly confidential all information concerning each patient and refrain from discussing this information with any unauthorized individual, including the patient.
- Show respect and consideration for the patient, regardless of race, religion, sex, nationality or economic status.
- Be guided at all times by concern for the welfare of patients entrusted to his/her care.

### AmSECT Code of Ethics

The purpose of a code of ethics is to acknowledge a profession's acceptance of the responsibility and trust conferred upon it by society and to recognize the internal obligations inherent in that trust. The following paragraphs delineate the standards governing the conduct of members in their professional interactions with patients, colleagues, other health professionals and the general public. Realizing that no code can encompass all ethical responsibilities of the members, this enumeration of obligations in the code of ethics is not comprehensive and does not constitute a denial of the existence of other obligations, equally imperative, and not specifically mentioned herein. This code of ethics shall be binding on the members of this society.

- Canon 1. Members must uphold the dignity and honor of the profession, accept its disciplines and expose without hesitation illegal, unethical and incompetent conduct.

- Canon 2. Members shall respect the patients' rights and dignity and shall uphold the doctrine of confidentiality regarding privileged patient information.
- Canon 3. Members shall provide only those services for which they are qualified. Members shall not misrepresent in any manner, either directly or indirectly, their skills, training, professional credentials, identity or services.
- Canon 4. Members shall strive to improve their medical knowledge and skills on a continuing basis.
- Canon 5. Members shall maintain and promote high standards for perfusion practice, which may include education, research and scientific presentations and/or publication.
- Canon 6. A member shall at all times hold the well-being of the patient to be paramount and shall not act in such a way as to bring the members' interests into conflict with the patient's interests. A member shall deliver health care services without regard to race, color, creed, national origin, sex, age, religion, sexual preference or physical and/or mental condition.

### **Attendance**

A student is responsible for studies missed during an absence and will be required to make up essential experiences. Academic penalties for unexcused absences will be determined by each course director and defined in the course syllabi.

Prompt and regular class, laboratory and clinical attendance are expected from each student in the program. If for any reason a student is unable to attend a scheduled academic assignment, it is his/her responsibility to inform the appropriate instructor, supervisor or program director before the absence occurs whenever possible. If prior notification is impossible, an explanation for the absence should be presented to the instructor within 24 hours.

During the final two clinical semesters and with the instructor's permission, students in the primary perfusionist role may be excused from class until bypass is terminated. After termination of CPB the student is expected to attend remaining class time. When class is over; students assigned to a clinical case are expected to return to their clinical assignment.

An absence is defined as non-attendance of any scheduled class, laboratory or clinical assignment. An absence is classified as *excused* when the student provides documentation from student health service or they experience a death in their immediate family (2 days funeral leave). All other absences are considered *unexcused*.

## **Dress Code**

While in the hospital, the Thoracic Surgery office, professional presentations or meetings students will be expected to dress as professionals. This will include lab coats with Cardiovascular Perfusion patch and nametags. (Nametags are also required in the O.R. and cardiac cath lab.) Men will wear ties. (Designated perfusion scrub suits may be worn while in cath labs).

If you need to leave the O.R. for a clinical situation (i.e. emergency in the cath lab) you must wear a yellow cover gown or your lab coat over O.R. scrubs and remove shoe covers, hats, and masks. Upon re-entry into the O.R. you must dispose of the yellow cover in an appropriate laundry bag and change into a fresh O.R. scrub suit.

## **Professional Development Evaluation**

In regard to ethics and professional behavior, the students are evaluated each semester as “*above satisfactory*,” “*satisfactory*” or “*unsatisfactory*” in “professional development”. Professional development includes issues such as honesty, ethical behavior, orientation to the patient, and participating appropriately as a team member. Failure to achieve a satisfactory score on the professional development evaluation will result in the student earning an unsatisfactory professional development rating on their grade report. An unsatisfactory rating in professional development will result in academic probation. Two semesters of unsatisfactory professional development will result in dismissal.

# **CURRICULUM**

## **Curriculum Description**

The University Bulletin specifically lists the curricula and the course descriptions.

The Cardiovascular Perfusion curriculum is structured for two years, 5 semesters (15 weeks each) following the general principles of cognitive domain of learning and developing psychomotor skills.

Students are introduced to the clinical arena, professional behavior and ethics during the first two semesters, along with course work in physiology, pharmacology and pathology. As the course work proceeds students increase their hands-on activities through simulation and wet labs, moving to the animal research labs for initial perfusion training and catastrophe simulation. The course work moves into clinical practice and implementation of research projects during the final two semesters.

Participation is required in seminar courses, journal club, morbidity and mortality

conferences, and cath conferences continuously throughout the two years.

## Competencies and Terminal Objectives

Each course, especially the clinical courses, carries objectives and competencies that must be demonstrated by the student. Each course employs testing and evaluation methods appropriate to and matching the course objectives.

## Minimum Criteria

To ensure appropriate mastery of the primary didactic and clinical course work during the Cardiovascular Perfusion program students must achieve a grade of 2.0 or better in all courses for successful course completion. Any grade below 2.0 will be considered a failing grade. A grade <2.0 in any of the core courses will warrant a request for student withdrawal or dismissal. (CH=Credit Hours)

ECT 310	Introduction to Research 3 CH
ECT 510	Applied Human Physiology 6 CH
ECT 301	Perfusion Technology I 4 CH
ECT 313	Clinical and Laboratory Instrumentation 4 CH
ECT 360	Pathophysiology for Perfusion Technology 4 CH
ECT 621	Pharmacology 4 CH
ECT 340	Fundamentals of Clinical Acid Base Chemistry 2 CH
ECT 335	Perfusion Technology II 4 CH
ECT 331	Principles & Practice of Perfusion Technology 8 CH
ECT 345	Clinical Experience I 8 CH
ECT 451	Clinical Experience II 12 CH
ECT 452	Clinical Experience III 12 CH
ECT 464	ECT in Pediatric Heart Surgery 2 CH
ECT 332	Current Professional & Clinical Issues 2 CH
ECT 463	Special Projects II 1 CH

## **Clinical Experience**

Past years have demonstrated the program's success in providing more than seventy-five procedures for each student enrolled.

## **On-Call Responsibilities**

As part of the educational experience in the Cardiovascular Perfusion program students will be required to be “*On-Call*” during Clinical Experience II, III and IV. The hours and frequency will vary depending upon clinical assignments. Pagers will be assigned to the “On call” students. It is the “On-call” student's responsibility to be available and to be within 30 minutes of the OR.

## **Affiliations and Clinical Rotations**

The MUSC Cardiovascular Perfusion faculty provides the clinical perfusion services at MUSC and the VAMC. The Ralph Johnson Veterans Administration Medical Center (VAMC) is a 401-bed general medical and surgical hospital. The VAMC is a Dean's Committee hospital and maintains a close liaison between it's' staff and the staff at MUSC. The VAMC is regulated and monitored by the national Veterans Administration.

MUSC Hospital is accredited by the Joint Commission on Accreditation of Healthcare Organizations. All South Carolina health care facilities, including Cardiovascular Perfusion affiliates, are monitored and regulated by the South Carolina Department of Health and Environmental Control (DHEC).

Students will be required to attend 2 seven week out-of-town rotations where **room and board will be the responsibility of the student**. Current AC-PE Approved Hospitals for Clinical Rotations are:

University of Alabama  
Birmingham, Alabama

Arkansas Children's Hospital  
Little Rock, AR

Massachusetts General Hospital  
Brigham and Women's Hospital  
Boston, MA

Carolinas Hospital System  
Florence, SC

Duke Medical Center  
Durham, North Carolina

Greenville Memorial Hospital  
Greenville, SC

Medical Center of Central Georgia  
Macon Georgia

Shands Hospital University of Florida  
Gainesville, FL

University of Michigan Medical Center  
Ann Arbor, MI

### **Student Service Policy**

While in clinical rotations performing patient-care activities, Cardiovascular Perfusion students will always be supervised by Cardiovascular Perfusion Program clinical instructors. Cardiovascular Perfusion students shall never be employed to take the place or assume the responsibilities of clinical staff perfusionists at MUSC or its clinical affiliates.

Cardiovascular Perfusion students are limited to the patient-care competencies described in the course specific syllabus. Specific perfusionist tasks, such as drawing up and checking drugs alone, or co-checking donor blood products, remain the primary responsibility of the Cardiovascular Perfusion clinical faculty in the patient care areas, **even if the Cardiovascular Perfusion student is a registered nurse**. Cardiovascular Perfusion students do not perform IABP, ATS, or ECMO without direct instructor supervision.

Should students find that they are assigned to or performing patient-care activities without faculty supervision, the student should immediately cease activity, consult faculty, and notify program officials.

Students who are appropriately licensed and experienced may seek employment in their non-perfusionist specialty at MUSC or surrounding hospitals as long as their employment does not interfere with class meetings, clinical assignments, call or academic performance.

### **Student Clinical Competency**

During the third, fourth, and fifth semesters of the Cardiovascular Perfusion program, the Clinical Competency Committee consisting of all perfusion faculty, complete evaluations at the end of each semester to document the student's progress toward competency. Input from outside clinical faculty is often incorporated into the evaluation.

Clinical competencies are an opportunity for the student and faculty to review the student's progress, the program's ability to meet the student's needs and to formulate an action plan to accomplish the goal of producing competent perfusion professionals.

## **FACULTY ADVISOR**

Each student is assigned a faculty advisor. It is the responsibility of the students to schedule a meeting with their advisor at least once each semester. Cardiovascular Perfusion students may consult their faculty advisor with challenges that cannot be resolved on a teacher-student basis.

## **DEPARTMENT POLICIES**

### **Grievance Policy**

Any complaint of a student concerning academic performance may proceed in two ways:

A student having a complaint based upon his/her performance in a specific department or course shall attempt to resolve such complaint himself/herself with the academic department involved.

If the matter is not resolved to the satisfaction of the student and the student continues to feel that a wrong has occurred, the student may petition the department Chair in writing.

A student complaint arising from an action of his/her Progress Committee (Cardiovascular Perfusion Faculty) should be addressed to the Chair in writing. A complaint must be received by the Chair within ten (10) calendar days following receipt of notice by the student of the action of the Progress Committee or such complaint shall be waived. The Chair may refer the matter back to the Progress Committee or to an ad hoc committee for their consideration and recommendation.

1. The Chairman of the Progress committee or ad hoc committee shall provide the student with written notice of the hearing not less than seven (7) calendar days prior to the hearing.
2. The student must present all relevant evidence in his/her behalf at the hearing and may be accompanied by a faculty advisor of choice.
3. The Department Chair, after a review of the record and the recommendation of the committee, shall render a decision and advise the student in writing.
4. The Dean of the college has the option to review the decision and make an additional decision regarding the outcome.

**Appeal Process:** Refer to the College Honor Policy Criteria in the Bulletin of the Medical University of South Carolina.

### **Borrowing of Faculty or Department Resources**

The program and faculty have books, tapes and other resources that are available to students. Books, journals, periodicals, etc., will **NOT** be removed from the Departmental

Library without **prior consent from the faculty**. Students are expected to properly re-shelve all books, journals and periodicals after usage.

## **EXPENSES**

University and College tuition and fees for In State and Out of State students can be obtained from the student financial aid office. Additional fees that are specific for the Cardiovascular Perfusion program include:

Program Fee	\$440.00 per semester
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*Other applicable fees for specific purposes (i.e. returned check, financial reinstatement, etc) are listed in the University Handbook.*

### **Books and Course Syllabi**

Book expenses vary from term to term, with the greatest expense incurred the first semester. Books may cost \$800.00 or more initially. The second term may cost \$200.00 to \$300.00 for books, and most likely less than \$100.00 for each remaining term. Several Cardiovascular Perfusion courses require syllabi. They can be purchased at cost. For details consult the Cardiovascular Perfusion Office Manager at the beginning of each semester.

### **Professional Liability Insurance**

While a student in the Cardiovascular Perfusion program, the College covers liability insurance costs. An additional, personal practice policy may be required for specific rotations.

### **Immunizations and Emergency Care**

All students entering MUSC must provide proof of immunizations and are required to have hospitalization insurance in the event of illness or injury. Students not meeting these requirements will not be allowed to attend classes. Student Health Services staff will contact all students accepted into the program to coordinate and confirm compliance prior to beginning of classes. Emergency care for students is addressed in the Medical University Student Handbook.

### **Professional Dues**

Students are expected to become members of the American Society of Extracorporeal Technology (AmSECT) and the American Academy of Cardiovascular Perfusion (AACP).

For membership in AmSECT there is an initial application fee of \$25.00. Student membership renewal is only \$15.00. The annual fee for membership in AACP is \$25.00.

### **STUDENT RESEARCH DAY**

Student Research Day (SRD) is an all-day event, held each fall. It is designed to encourage participation in scientific presentations that are similar in format to major national meetings. Student Research Day is an excellent learning opportunity for our students in a friendly environment.

The role of SRD is multifaceted: it helps to sharpen the student's presentation skills; it provides a springboard for students to attend regional and national meetings; it advertises the excellence of the research performed at MUSC; and it assists in our ongoing recruitment efforts for both students and faculty.

The Cardiovascular Perfusion program is well known for its success in integrating research competencies into its perfusion education curriculum and participation in SRD is highly encouraged.

### **2009-2010 PROFESSIONAL AND REGIONAL MEETINGS**

AmSECT International Conference.

American Academy of Cardiovascular Perfusion

Students are encouraged to submit papers and posters for presentation and to attend these perfusion meetings.

### **OUTSTANDING STUDENT AWARD**

Each year one student from the senior Cardiovascular Perfusion class is chosen as the recipient of the Outstanding Student Award. The selection is made by vote of the Cardiovascular Perfusion faculty and is based upon the following criteria: maturity, team orientation, patient and professional attitude, attitude toward research, and dependability.

### **JAMES DEARING LECTURE**

**and**  
**FINAL EXAMINATION**

Part of the culture and tradition of the Cardiovascular Perfusion program is the James P. Dearing Memorial Lecture given the month of graduation. This lecture is given by a visiting perfusionist/professor. In addition to the lecture, the visiting professor and other perfusionists from the state and clinical affiliates administer the final oral examination to the senior students.

**CERTIFICATION EXAMINATION**

The American Board of Cardiovascular Perfusion was established in 1975 for the purpose of certifying individuals engaged in the practice of clinical perfusion (CCP). The examination process is divided into two criterion-referenced written examinations: Perfusion Basic Science and Perfusion Clinical Applications.

Admission requirements to the Perfusion Basic Science examination are:

1. Graduation from a program accredited by the Commission on Accreditation of Allied Health Education Programs;
2. Performance of seventy-five clinical cases while in training;

Admission requirements to the Perfusion Clinical Applications examination are:

1. All requirements listed for the perfusion Basic Science exam;
2. Perform fifty clinical cases after graduation;

Both Applications for Examination for the American Board of Cardiovascular Perfusion (ABCP) may be requested by calling or writing:

The American Board of Cardiovascular Perfusion  
207 North 25th Avenue  
Hattiesburg, MS 39401  
(601) 582-3309

**AMERICAN BOARD OF CARDIOVASCULAR PERFUSION**  
**CODE OF ETHICS**

The American Board of Cardiovascular Perfusion believes that the Certified Clinical Perfusionist (CCP) shall be dedicated to providing competent medical service with compassion and respect for human life. In the spirit of promoting ethical professional development, the following Code of Ethics has been formulated in the interest of both safety for the patient during cardiovascular perfusion and the protection of the public.

I The Certified Clinical Perfusionist who willfully misstates fact during the application,

examination, or recertification processes is guilty of unethical conduct. Likewise the willful misstatement of fact regarding the title or membership in a professional community is considered unethical conduct.

- II The Certified Clinical Perfusionist who consciously fails to promote both the safety and protection of the public is guilty of unethical conduct.
- III The Certified Clinical Perfusionist who willfully disregards the patient for monetary gain is guilty of unethical conduct. Examples of such conduct are unjustified reimbursement for services performed or prejudicial compensation.
- IV The Certified Clinical Perfusionist who shows willful disregard for sound patient care by acts of omission is guilty of unethical conduct.
- V The ethical Certified Clinical Perfusionist shall subscribe to all other applicable ethical standards of the medical community.
- VI The Certified Clinical Perfusionist accepts the responsibility for subscribing to the preceding Code of Ethics and for reporting unethical professional conduct.

I have received, read and understand the contents of the 2009-10 Medical University of South Carolina Cardiovascular Perfusion Program Student Handbook.

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Name

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Date: \_\_\_\_\_