



ACADEMY OF SURGICAL RESEARCH

18th Annual Meeting

October 3 - 5, 2002

Hyatt Regency Hotel
Greenville, South Carolina

About the Academy:

In 1982, forward thinking scientist concerned about incomplete communication across the disciplines of surgical investigation founded the Academy of Surgical Research. The society fosters interdisciplinary transfer of ideas and theories by offering a common platform through which the reporting of valid surgical research efforts is a reality.

The Academy of Surgical Research was founded to:

- Encourage, foster, promote and advance professional and academic standards, education, research and development in the arts and sciences of experimental surgery.
- Promote, initiate, support, and accomplish academic and practical educational programs, cooperative research, and development in experimental surgery in the public interest.
- Promote humane use and treatment of experimental animals and prevent their use when other means can bring about the same scientific results.
- Cooperate with medial organizations, other scientific organizations, governmental agencies, and other interested parties in establishing, reviewing, and evaluating ethics, theories, practices and research and promotion of the product of surgical research for clinical application.
- Encourage the advancement of the field of surgery in all aspects, including research, education and critical promotion of research products for clinical applications.

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18th Annual Academy of Surgical Research Meeting

Greenville, South Carolina • October 3rd - October 5th, 2002

Wednesday, October 2nd

2:00 - 5:00 ASR BOARD OF DIRECTORS MEETING
Board Room

5:00 - 6:00 REGISTRATION
Pre-function Area

Thursday, October 3rd

8:00 - 5:00 REGISTRATION
Pre-function Area

8:00 - 12:00 SRS CERTIFICATION EXAMINATION
Crepe Myrtle Room

8:00 - 10:00 ASR BOARD OF DIRECTORS MEETING
Magnolia Room

8:00 - Noon **SRS PROGRAM**
Regency A

Session #1
CERTIFICATION REQUIREMENTS, TESTING,
AND STUDY MATERIALS
John Gehret and Matt Flegal

Session #2
MINIMALLY INVASIVE SURGERY SEMINAR
a. Videoendoscopic Equipment and
Techniques
b. Minimally Invasive Surgery; the Role and
Training of the Surgical Technician

Marcel Perret-Gentile, DVM

Session #3
SURGICAL JEOPARDY
John Gehret and Matt Flegal

9:00 - 3:30 **EXHIBITS OPEN**
Continental Ballroom

12:00 - 1:30 Lunch - on your own
Visit Exhibitors

1:30 - 5:00 **SPECIAL PROGRAM**
DOUG CROMEENS MEMORIAL KEYNOTE
SESSION
Regency A

ROBOTICS IN MINIMALLY INVASIVE
SURGERY: THE DAVINCI SURGICAL ROBOT

Dr. Wiley NiFong - *Evolution of Robotic
Cardiac Surgery*
Dr. Curt Bower - *Comparison of Learning
Curves for Robotic and Laparoscopic Systems*

Dr. Marc Bailey - *Robotic uses in General
Surgery, Vascular Surgery, Gynecology and
Urology*

5:00 - 6:15 **WELCOME RECEPTION**
Continental Ballroom
Visit the Exhibitors

Friday, October 4th

7:00 - 8:00 **MORNING COFFEE** - Sponsored by Glaxo
Smith Kline
Pre-Function Area

7:00 - 5:00 REGISTRATION
Pre-Function Area

9:00 - 4:15 **EXHIBITS OPEN**
Continental Ballroom

8:00 - 8:15 **WELCOME**
Regency A

8:15 - 9:15 **KEYNOTE LECTURE: "Advances in
Transplantation: The New Field of
Xenotransplantation and Clonal Therapy"**
Luis H Toledo-Pereyra, MD

9:15 - 11:00 **SCIENTIFIC SESSIONS**
Regency A
Presentations will be 15 minutes with 5 minutes
for questions

Session #1
SURGICAL MODELS AND TECHNIQUES

9:15 Surgical Model of Gastric Cannulation in Rats
ZM Filipovic, J Gizzi, B Desai, S Ritland, J Ke,
and M Hargadeu

9:35 Pharmacological Validation of an Intussuscepted
Nipple Valve Stoma Model for Intestinal Access
R Roache, J Marcello, CP Lee, RW Coatney

The Anesthesia, Pharmacological, and
Adjunctive Surgical Management of
Thoracoabdominal Bypass Grafting in Pigs
HV Mendenhall

10:15 BREAK - Visit the Exhibitors

10:35 Hemodynamic Effects of Selective Echo-Guided
Mitral Valve Chordal Rupture in a Porcine
Model
DM Maziarz, YS Sun, VF Chu, AM Conquest, JH
Garofalo, LW Nifong and WR Chitwood, Jr

11:00 ACADEMY OF SURGICAL RESEARCH
BUSINESS MEETING
In view of the changes and unexpected events
faced by the Academy during the past
calendar/fiscal year, it is extremely important
that all active members be present for the
Annual Business Meeting. **PLEASE ATTEND!**

12:00 - 1:30 LUNCH ON YOUR OWN - Visit the Exhibitions

Saturday, October 5th

- 1:30 - 5:00 **SCIENTIFIC SESSIONS**
Regency A
- Session #2 ACCESS METHODOLOGIES AND TELEMETRIC TECHNIQUES**
- 1:30 A Novel Technique for Repeated Access of CSF in an Unanesthetized Guinea Pig
M Flegal and S Kuhlman
- 1:50 Continuous Infusion to the Lateral Ventricle of the Beagle Dog
K Bayer, HV Mendenhall, K Howk and A La Rochelle
- 2:10 A Method to Allow for the Delivery of Test Articles to the Brain of Rats Utilizing Specially Prepared Syringe Pumps and Cannulae
M Pepin, J Sutherland, K Bankiewics and L Sanftner
- 2:30 - 2:50 BREAK - Visit the Exhibitors
- 2:50 A Novel Radio-Telemetry Model in the Pre-term Pregnant Macaque: Monitoring Intra-uterine Pressure and Electromyograms Associated with Uterine Contractions
JC Resendex, W Bee, T Reinheimer, J Bernal, D Moddrelle, J Meyer and G Haluska
- 3:10 Implantation of a Telemetry device to Evaluate Uterine Contractions and Intra-uterine Pressure in Pregnant Cynomolgous Monkeys
J Bernal, JC Resendex, D Moddrelle, L Stoll, G Haluska and W Baughman
- 3:30 A Novel Approach to Reduce Pressure Necrosis in Small (<3.0 kg) Non-Human Primates Implanted with a Physiotel, D70-PCT Telemetry Transmitter
D Moddrelle, J Bernal, JC Resendez and L Stoll
- 3:50 - 4:10 BREAK - Visit the Exhibitors
- 4:10 Catheterization of the Cerebral Subarachnoid Space for Continuous Intrathecal Infusion in Sprague-Dawley Rats
K Bayer, M Pepin, HV Mendenhall and A La Rochelle
- 4:30 Jugular and Femoral Vein Vascular Access Ports (VAP's) in Pigs
Hv Mendenhall, D DesPlaines, K Bayer and A LaRochelle
- 4:50 Factors Influencing Longevity in Cannulated Bile Duct Canines
S Beam, M Pepin, K Bayer, PM Markham and W Sauer

6:00 - 7:15 **OFFICERS RECEPTION**
Regency C - F
Attendees will enjoy light hors d'oeuvres and a cash bar.



- 7:00 - 8:00 MORNING COFFEE - Sponsored by Research Technologies
Pre-Function Area
- 8:00 - 12:00 **SCIENTIFIC SESSIONS**
Regency A
- Session #3**
WOUND HEALING AND ASSOCIATED TECHNOLOGIES
- 8:00 I - FABP in Preserved Rat Intestinal Grafts
RE Sonnino, RS Cross and O Twafik
- 8:20 IGF - 1 Stimulation of Bone Matrix Protein Production in Osteosarcoma Cells in Culture
M Tucci, J Hughes and H Benghuzzi
- 8:40 The Use of ZNCAP-TE Delivery Devices to Stimulate Fracture Healing and Bone Density in Adult Male Rats
H Benghuzzi, M Tucci, A Tsao and J Hughes
- 9:00 A Comparison of the Achilles Tendon Segmental Resection Model and the Patellar Tendon Window Defect Model for the Study of Tendon Healing
CA Burns, PM Saluan, GO Njus, RA Vinay, WE Horton Jr, M Evancho-Chapman, N Awad-Haller, D Arends, JA Beach, LA Define, J Killius and A Hilger
- 9:20 Characterization of Rejection in the Isolated Vascularized Bone Marrow Transplantation Model
CY Tai, H Suzuki, JV Tran, MS Matthews, RM Dalsey and CW Hewitt
- 9:40 Comparative Healing of Surgical Incisions Created by a Standard "Bovie", the Utah Medical Epitome® Electrode, and a Bard Parker® Blade in a Porcine Model: A Pilot Study
SJ Vore, WA Wooden, JF Bradfield, ED Aycock, PL Vore, JF Lalikos and SS Hudson
- 10:00 - 10:20 BREAK
- 10:20 Increased Expression of Basic Fibroblastic Growth Factor (bFGR) in Human Aortic Endothelial Cells (HAEC's)
R Armour, L Reid, J Alexander and C Hewitt
- 10:40 The Effect of Aldosterone and Cortisol on the Viability and Proliferation of Rhesus Monkey Kidney Cells in Culture
H Benghuzzi, and M Tucci
- 11:00 Nicotine Induced Platelet-Derived Growth factor Expression in Human Aortic Endothelial Cells
L Reid, R Armour, J Alexander and C Hewitt
- 11:20 **CLOSING REMARKS AND MEETING ADJOURNMENT**
- Noon - 2:00 ASR BOARD OF DIRECTORS AND OFFICERS MEETING
Crepe Myrtle Room

Exhibition

Enhance your conference educational and networking opportunities by visiting the industry's premier product and service providers in the Exhibition Hall.

2002 Exhibitors include:

Access Technologies
Colonial Medical Supply Co.
Covance Research Products
Lomir Biomedical Inc.
Marshall Farms, Inc.
Deltec, Inc.
SurgiVet, Inc.
Viking Medical

Exhibit Hours

Thursday, October 3, 2002
9am - 3:30pm

Friday, October 4, 2002
9am - 4:15pm

ASR Corporate Partner

The Academy expresses its appreciation to the following corporate partner for its support of ASR in 2002:

Platinum Level Partner



Contributing to the Search for Healthier Lives™

Charles River Laboratories provides nonclinical products and services to the biomedical research industry in support of drug discovery and development. By offering Discover & Development as well as Biopharmaceutical Development Services in conjunction with animal research models, Charles River is uniquely positioned as the premier company *Contributing to the Search for Healthier Lives™*.

CEU Credit

Surgical Research Specialists (SRS) can earn 1 1/2 CEU credits per hour of lecture attendance at the 18th Annual Meeting. CEU Report Forms will be available at the registration desk or may be obtained by contacting the ASR office at 952.835.4180 x100.

Program Goals

At the conclusion of the program, the participants will be able to discuss:

- Proposed and current research efforts in the arena of experimental cardiac, vascular, transplantation, orthopedic and minimally invasive surgery;
- The advantages of required certification of research specialists working in the surgical arena;
- New and updated methods and materials used in human and clinical surgical investigation;
- New procedures that will enhance their own fields of scientific research.

Program Committee

Steve Vore, East Carolina University
Robert Coatney, Glaxo Smith Kline
Mike DeLeo, Baxter Healthcare
Mike Talcott, Washington University
Dr. Luis Toledo - Perexra, Michigan State University

Registration Hours

Wednesday, October 2	5pm - 6pm
Thursday, October 3	8am - 5pm
Friday, October 4	7am - 5pm

In Memorium

This year's Opening Special Program is dedicated to Douglas Cromeens, ASR's 2002 President-Elect, who passed away unexpectedly on April 5 in his home of Houston, Texas