

**SOUTH CAROLINA
SPINAL CORD INJURY
RESEARCH FUND**



**ANNUAL REPORT 2003/2004
June 30, 2004**

In Memory of Judge Charles Allen, 1949-2003



In addition to service on the SCIRF Board, Judge Allen served on the Shepherd Center advisory board. The following memorial originally appeared in Shepherd Center's Spinal Column magazine and is reprinted here with their generous permission.

Shepherd Center lost a dear friend late last year with the passing of Judge Charles L. Allen of Charleston, South Carolina. Allen, a member of Shepherd's advisory board, was a compassionate, fair-minded, municipal court judge who was an inspiration to anyone who faced a severe disability and gone on to live a rich and productive life.

Paralyzed from the neck down from a motorbike accident in 1982, Allen was determined not to let his disability overwhelm his life. He freed himself from dependence on a ventilator, and learned to maneuver his sip and puff wheelchair.

"There are so many technical advances that handicapped people cannot lose faith", he said in a Charleston *Post and Courier* interview two years after his accident. "We must resolve to live fully and thank God for life".

Allen also took an active role in prison ministry. He wanted to reach out to others that were "confined" by life, he would say. That ministry grew from just a few people to well over one hundred state prisoners in a short time.

Allen's funeral was held in Charleston on New Year's Eve. During the service, a recording of 180 prisoners singing "Amazing Grace" was played in his honor. Judge Allen was 54.

State of South Carolina

Spinal Cord Injury Research Board

“Dum Spiro Spero - While I breathe I Hope”

Brian G. Cuddy, MD
Chairman

Judge Charles L. Allen
David Griesemer, MD
Terry Peacock
Phanor L. Perot, MD, PhD
David L. Shalleross, MD
W. Daniel Westerkam, MD



J. Walker Coleman, III
Fund Administrator

Medical University of South Carolina
Administrative Building
135 Cannon Street, Suite 201
P.O. Box 250001
Charleston, SC 29425

July 2004

Dear Friends and Supporters;

On behalf of the Board of the Spinal Cord Injury Research Fund, I am pleased to report on yet another year of hard work and progress by Fund projects, Board, and staff.

However, we were deeply saddened by the untimely passing of Board Member, Judge Charles Allen, who so valiantly continued to contribute to his community, profession, and to spinal cord injury despite his own injury. He will forever be missed and this Annual Report is dedicated to his exemplary memory.

As the year started, 10 Second Round research projects were awarded and implemented, with 7 First Round projects still underway. Our Scientific Directors and Board completed and issued RFPs (“Request For Proposals”) for two new special initiatives (“Recruitment”, and “Rehabilitation”) as well as a RFP for a Third Round of projects that resulted in 9 proposals being submitted, 7 of which were approved for funding after thorough scientific review. We are particularly pleased to have all three South Carolina research universities participating with funded projects.

The special “Rehabilitation” RFP was the end product of over a year of seed work which included a conference of statewide leaders in December co-sponsored by the Fund with the S. C. Spinal Cord Injury Association, the S. C. Brain Injury Leadership Council, and the Brain Injury Alliance of South Carolina. Work is continuing to further refine the parameters of this study focused on meeting the critical need for additional acute rehabilitation services and capabilities in our state.

The year also witnessed additional contact with public and professional leaders to inform about and advocate the growing list of achievements as well as potential offered by the Spinal Cord Injury Research Fund.

These highlights only touch upon the many achievements over this period as well as since the Fund was established in 2000. Once again the Board would like to express its special appreciation to all who are interested in and supportive of the Fund—particularly the S. C. Legislature, the Medical University of South Carolina, Clemson University, and the University of South Carolina. We look forward to an even more productive FY 04-05.

Sincerely,

Brian G. Cuddy, M.D.
Board Chair

**2003/2004 ANNUAL REPORT
SOUTH CAROLINA SPINAL CORD INJURY RESEARCH FUND**

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PART I

OVERVIEW: {01/01/01 through 06/30/04}

PURPOSE/CHARGE: Promoting research to develop better understanding of causes and effective treatment strategies for paralysis, sensory loss, and other consequences of spinal cord injury and disease.

LEGISLATIVE BACKGROUND: The South Carolina Spinal Cord Injury Research Fund (SCIRF) was established in 2000 by amendment (Bill S54 44-38-510) to Section 2, Chapter 38, Title 44 of the 1976 S.C. Code as signed by the Governor on July 20, 2000.

GOVERNANCE: The Fund is governed by a 7 member Board appointed by the Governor upon recommendation of the President of the Medical University of South Carolina. It is comprised of two medical doctors from MUSC; two medical doctors at large specializing or significantly engaged in the treatment of spinal cord injury; two members who have a spinal cord injury or a family member; and one at large medical doctor who is a member of the South Carolina. See **Appendix 1** for detailed Board Member Information.

ADMINISTRATION: The Fund is administered by the Medical University of South Carolina through a part-time Administrator (J. Walker Coleman, MBA) assigned from the Office of the President and two part-time Scientific Directors (Dr. James Krause and Dr. Mark Kindy) who oversee all aspects of research development and implementation including setting goals, developing project invitations to meet goals, and scientific review and recommendation to the Board of all such projects received.

AMOUNT COLLECTED: The \$ 100 per DUI surcharges started on January 1, 2001. As of July 2004, the Fund had raised slightly over \$ 2.5 Million. The average monthly amount collected over the first 42 months has been right at \$ 60,000. **Appendix 2** presents cumulative DUI collection figures.

PRIMARY OBJECTIVES:

- Advance knowledge of SCI injury repair and regeneration within the SC research community by encouraging physicians and scientists to apply expertise to SCI field.
- Foster collaborative interdisciplinary approaches to SCI research among SC hospitals, rehabilitative centers, research universities, and interested organizations.
- Nurture next generation of SCI researchers through support of young scientists and post-doctoral fellows.
- Improve well being and quality of life of individuals with SCI by research programs that prevent or treat the secondary conditions and consequences of SCI.
- Set budgets and administer funds for SCI research as mandated by the SC Legislative Act, and assure highest quality of research and commitment by investigators.

INITIAL FUNDING PRIORITIES:

- Translating basic and pre-clinical findings into clinical applications.
- Studying strategies to promote growth and survival at cellular level.
- Assuring efficacy of drugs or other interventions to prevent or reduce secondary injury and to provide insight to the mechanisms causing this progressive damage.
- Exploring the role of tissue transplantation in restoration of spinal cord function.
- Studying other disorders of spinal cord or brain that are reasonably expected to produce new insight into the mechanism or treatment of dysfunction following spinal cord injury.
- Defining anatomical, pathophysiological, inflammatory, and neurochemical characteristics of spinal cord injury or disease in well defined animal models.
- Elucidating biological and physical mechanisms that improve functions compromised by spinal cord injury, including dysfunction, chronic pain, and uncontrolled spasticity. Developing strategies to prevent or treat secondary complications from injury or disease of the spinal cord.
- Developing innovative rehabilitative strategies, services, or priorities to promote recovery and function following spinal cord injury.
- Developing public education programs to help decrease the occurrence of spinal cord injury by safety education, better safety practices, and decreased alcohol use as a contributing factor.
- Developing education programs for the injured and their families.

REQUESTS FOR PROPOSALS (RFP): There have been five separate issues completed with planning for the sixth (ROUND 04) currently underway for a 12/15/04 target issue date:

- ROUND 01—RFP issued 12/15/01 with 3/15/02 deadline. Received 12 proposals.
- ROUND 02—RFP issued 02/01/03 with 5/13/03 deadline. Received 12 proposals. Added were five Funding Mechanisms: Primary Research, Care Access/Delivery, Career Development, NIH Grant Seed, and Research Result Dissemination.
- ROUND 02A—RFP issued 12/15/03 for special faculty recruitment initiative. To date no proposals have been received, but RFP is still open
- ROUND 02B—RFP issued 02/01/04 for special contract initiative to complete an Assessment of Need and Feasibility of Enhancing Rehabilitation Services in the State of South Carolina. Received 3 bids, but the Board subsequently required additional clarifications and will invite 2 of the bidders to resubmit in December 04.
- ROUND 03—RFP issued 12/15/03 with 03/15/04 deadline. Received 9 regular proposals plus 1 unsolicited special request.

ROUND 01 PROJECTS: A first round of eight (8) research projects were approved and awarded funds on 09/01/02 for periods ranging from 12 to 18 months, with no-cost extensions carrying some through the end of 2004.

- **SCIRF0202—Gene Expression Profiling of CNS Regions Implicated in a Mouse Model of Spinal Cord Injury** *{ \$ 85,466 for 18 months }*
P. I.: Jacqueline F. McGinty, PhD, Professor, Physiology and Neuroscience
Medical University of South Carolina
- **SCIRF 0302—Statewide Outcome Assessment for Spinal Cord Injury (SOASCI): Assessing the Implementation and Effectiveness of Methylprednisolone Protocol and Other Outcomes of Spinal Cord Injury In South Carolina** *{ \$ 123,349 for 12 months }*
P. I.: Stephen J. Haines, MD, Professor and Chair, Department of Neurological Surgery, Medical University of South Carolina
- **SCIRF 0602—Assessment and Treatment of Musculoskeletal Pain in the Shoulder Girdle in SCI Through Surface-Recorded EMG and EMG Biofeedback** *{ \$ 91,990 for 18 months }*
P. I.: Susan J. Middaugh, PhD, PT, Professor, Department of Anesthesia and Perioperative Medicine, Medical University of South Carolina
- **SCIRF 0802—Spinal Modulation of the Nociceptive Pressor Reflex** *{ \$ 87,978 for 18 months }*
P. I.: Britt Wilson, PhD., Associate Professor, Pharmacology and Physiology, University of South Carolina School of Medicine.
- **SCIRF 1102—An In Vitro Model of the Reflex Arc as Applied to Spinal Cord Injury** *{ \$ 100,252 for 18 months }*
P. I.: James J. Hickman, PhD., Hunter Endowed Chair of Biomaterials, Department of Bioengineering, Clemson University
- **SCIRF 1202—Taking Charge of Your Life”—Statewide Conference for People With Spinal Core Injuries** *{ \$ 29,476 for 12 months }*
P. I.: Kermit L. Short, Executive Director, SC Spinal Cord Injury Association
- **SCIRF 1302—Recruitment Assistance for James S. Krause, PhD as Chair of the Department of Rehabilitative Sciences at MUSC and Scientific Director of the SCI Research Fund** *{ \$ 125,000 for 12 months }*
P. I.: James S. Krause, PhD., (& Danielle N. Ripich, PhD.), Chair, Department of Rehabilitative Sciences, College of Health Professions, Medical University of South Carolina
- **SCIRF 1402—Recruitment Assistance for Mark S. Kindy, PhD as The Admiral Pihl Endowed Chair of Neuroscience at MUSC and Associate Scientific Director of the SCI Research Fund** *{ \$ 75,000 for 12 months }*
P. I.: Mark S. Kindy, PhD., (& Peter Kalivas, PhD.), Admiral Pihl Endowed Chair of Neuroscience, Department of Physiology/Neuroscience, Medical University of South Carolina

ROUND 02 PROJECTS: A second round of ten (10) projects was approved on July 11, 2003 for periods ranging from 12 to 18 months and awarded funds as of September 1, 2003 or shortly thereafter.

- **SCIRF 0103—“Taking Charge of Your Life”—Continuing Education for People With Spinal Cord Injury *{\$65,000 for 12 months}***
P. I.: Kermit Short, Executive Director, SC Spinal Cord Injury Association
- **SCIRF 0303—Development of a Laser Cell Micropatterning System for In Vitro Investigation of Adult Stem Cell Spinal Cord Injury Treatment *{\$149,890 for 18 months}***
P. I.: Bruce Z. Gao, PhD., Assistant Professor, Department of Bioengineering, Clemson University
- **SCIRF 0403—In Vitro System to Determine Factors Promote Survival and Regeneration of Principal Neurons of the Spinal Cord *{\$ 74,892 for 18 months}***
P. I.: Peter Molnar, PhD., Research Assistant Professor, Department of Bioengineering, Clemson University
- **SCIRF 0503—Determination of Occurrence and Causes of Death Among South Carolina Residents with Traumatic Spinal Cord Injury *{\$ 145,000 for 18 months}***
P. I.: Elisabeth Pickelsimer, DA, Research Assistant Professor, Department of Biometry and Epidemiology/Rehabilitative Sciences, Medical University of South Carolina
- **SCIRF 0603—The Prevalence of Upper Quarter Pain Among Persons with Long-term Spinal Cord Injury *{\$ 75,000 for 18 months}***
P. I.: David Morrisette, PT, ATC, MTC, PhD., Associate Professor, Physical Therapy Education Program, Department of Rehabilitative Sciences, Medical University of South Carolina
- **SCIRF 0703—Frequency, Severity, ad Risk Factors for Falls and Fall-Related Injuries Sustained by Individuals with Incomplete Spinal Cord Injury *{\$ 75,000 for 18 months}***
P. I.: Sandra S. Brotherton, PhD., Assistant Professor, Department of Rehabilitative Sciences, Medical University of South Carolina
- **SCIRF 0803—Estrogen Therapy for Spinal Cord Injury *{\$ 137,592 for 18 months}***
P. I.: Swapan K. Ray, PhD., Assistant Professor, Department of Neurology, Medical University of South Carolina
- **SCIRF 0903—Therapeutic Use of Minocycline for Spinal Cord Injury *{\$ 24,988 for 12 months}***
P. I.: Narayan R. Bhat, PhD., Professor, Department of Neurology, Medical University of South Carolina
- **SCIRF 1003—Project M.I.L.E. (Mobile Inclusion Life-Training Evaluation) *{\$ 3,000 seed funds for additional conceptual development}***
P. I.: Michael E Godkin, Director, Disabilities Resource Center, North Charleston
- **SCIRF 1103—Anti-inflammatory Approaches for Spinal Cord Injury *{\$ 75,000 for 18 months}***
P. I.: Ernest Barbosa, MD, Associate Professor, Departments of Neurology and Pediatrics, Medical University of South Carolina

ROUND 03 PROJECTS: A third round of seven (7) projects were approved on June 25, 2004 for periods ranging from 12 to 24 months and awarded funds as of July 1, 2004 or shortly thereafter:

- **SCIRF 0104— Biomaterial-based Gene Delivery for Spinal Regeneration {\$ 150,000 for 24 Months}**
P. I.: C. Kenneth Webb, Ph.D., Assistant Professor, Department of Bioengineering, Clemson University
- **SCIRF 0204— 2005 Statewide Conference for People with Spinal Cord Injury in South Carolina; And Beyond the Walls— Education Outside of Rehabilitation {\$ 60,000 for 12 Months}**
P. I.: Kermit L. Short, Executive Director, South Carolina Spinal Cord Injury Association
- **SCIRF 0304— Home Physical Activity Program for the Promotion of Health and Wellness in Individuals with Spinal Cord Injury {\$ 150,000 for 24 Months}**
P. I.: Holly H. Wise, PT, Ph.D., Assistant Professor, Department of Rehabilitative Sciences, Medical University of South Carolina
- **SCIRF 0604— Patterns of Care for Spinal Cord Injury: South Carolina and the Model Systems {\$ 61,632 for 12 Months}**
P. I.: David E. Murday, Ph.D., Assistant Director, Center for Health Services Policy & Research Arnold School of Public Health, University of South Carolina
- **SCIRF 0704— Telemedicine: A Lifeline for Continuity of Care for Spinal Cord Injury {\$ 3,000 seed funds for additional conceptual development}**
P. I.: Tracie L. Mertz, Ph.D., Clinical Psychologist, Neuropsychologist, Roger C. Peace Rehab Hospital, Greenville Hospital System
- **SCIRF 0804— Dissemination of Information Regarding Evidenced-Based Practices to Enhance Independent Lifestyles for People with Spinal Cord Injuries {\$ 70,000 for 24 Months}**
P. I.: Jill Monger, P.T., MHS; Michael Godkin, Executive Director DisAbility Resource Center of Charleston
- **SCIRF 1004— Bridge Funding Support for the S. C. Statewide Traumatic Spinal Cord Injury Surveillance and Registry System {\$ 102,000 for 24 Months}**
P. I.: Anbesaw W. Selassie, DrPH., Assistant Professor, Department of Biometry and Epidemiology/Rehab. Sci., Medical University of South Carolina

SUMMARY OF PROGRESS: Projects underway in the initial two rounds include primary research projects, career development awards, small pilot grants and educational programs. These have examined the mechanisms involved in spinal cord injury and have identified potential targets for treatment. Other studies have focused on the testing of selected drugs in the treatment of experimental spinal cord injury (SCI). Results from these studies could lead to the development of therapeutic inventions in patients with SCI. The Fund provided funds for a statewide conference on spinal cord injury and continuing education programs for people with SCI. Additionally, funded projects are examining the factors involved in pain management, death and trauma to individuals with SCI. At the end of 2003 a Fund organized conference of state rehabilitation leaders resulted in RFP 02B as noted above. Future goals of the Fund are to provide support for the recruitment of SCI scientists to the state, and selected programs to enhance ever-evolving Fund priorities. Additional goals are to determine the need for rehabilitation services, to provide educational programs and to reduce the incidence of SCI in South Carolina.

SUMMARY BUDGET INFORMATION: Between July 1, 2002 and June 30, 2004, the Fund had obligated a total of \$ 2,471,097 (\$ 145,530 in Administration/Other; \$ 178,162 in Research Development; and \$ 2,147,505 in funded Projects). These obligations will cover Administration and Scientific Development through 06/30/05, and all of the projects until they end, some on 06/30/06. Actual expenditures for the period totaled \$ 1,018,396. The Fund will continue collections at a rate in the neighborhood of \$ 60,000 per month as well as recoup additional unexpended funds at year-end from various budget components. **Appendix 3** presents detailed budget information.

PART II

HIGHLIGHTS OF FY 03-04 {07/01/03—06/30/04}

CHRONOLOGICAL HIGHLIGHTS OF FY 03-04: 2003/2004 witnessed a steady progression of activity, the highlights of which follow:

- **July:** The Fund Board met and approved ten (10) Round 02 projects for funding; priorities and timeline for a Round 02A and 02B of special initiative projects to be solicited in the Fall (faculty recruitment, and an acute care rehabilitation services need/feasibility study); set preliminary objectives timelines for a Round 03 RFP; and approved year-end 03 budget as well as proposed 04 budget. See **Appendix 4** for Board meeting agendas.
- **August:** Nine (9) of the approved Round 02 projects were awarded fund, with the tenth declining the offer of a seed developmental award. Once again, special recognition and appreciation is due to the MUSC Office of Research and Sponsored Programs as well Office of Grants Accounting who were instrumental in developing and implementing, at no additional cost to the Fund, a fully accountable system for awarding, expending, and monitoring of all funds.
- **October:** Board Chair Cuddy and member Peacock met with Legislative leader Senator Guise and members of the DHEC Certificate of Need staff to overview Fund history and priorities, particularly the planned acute care rehabilitation services need/feasibility study. This was followed up by a telephone discussion with Representative Limehouse. The Fund power point overview was updated, made available to Board and staff, and presented by Chairman Cuddy at the annual meeting of the South Carolina Spine Society.
- **December 05:** After more than six months of Board/staff planning and organizing, the South Carolina Rehabilitation Meeting convened to discuss parameters of an acute care rehabilitation services need/feasibility study. **Appendix 6** includes additional information on this event co-sponsored by the Fund, the South Carolina Spinal Cord Injury Association, the Brain Injury Alliance of South Carolina, and the South Carolina Brain Injury Leadership Council. Thirty state leaders attended including representation from the South Carolina Department of Vocational Rehabilitation, the S.C. Department of Disabilities and Special Needs, The Medical University of South Carolina, Roper/St. Francis Hospitals, Roper Rehabilitation Hospital, Health South, The Disabilities Resource Center of North Charleston, Roger C. Peace Rehabilitation Hospital, University of South Carolina Center for Health Service Policy and Research, University of South Carolina College of Medicine, and the Office of Research and Statistics of the South Carolina Budget and Control Board.
- **December 05:** The Fund Board met immediately following and charged staff with developing a special RFP for such a rehabilitation study in conjunction with the meeting co-sponsors. The Board approved a Round 03 RFP with extension of maximum grant periods from 18 to 24 months and included four “Funding Mechanisms”: Primary Research; Career Development; NIH Grant Seed; and Research Results Dissemination. It also approved the special Recruitment RFP 02A to assist South Carolina in the recruitment of scientists specializing in spinal cord injury. See **Appendix 4** for Board meeting agendas.
- **December 15:** RFP 03 (Round 03 projects) issued with March 15 deadline, and RFP 02A (Recruitment) issued with an open deadline. Pertinent sections of these RFPs are included in **Appendix 5**.

- **December 17:** FY 02/03 “ANNUAL REPORT” distributed to 550 health/political leaders and news media outlets throughout South Carolina.
- **February 1:** Special initiative RFP 02B (Rehabilitation) issued with March 31 deadline. See **Appendix 5** for more detail.
- **April/May:** Scientific review conducted on the ten (10) RFP 03 and three (3) RFP 02B proposals received. No RFP 02A proposals were received. Proposals and reviews were mailed to Board for their final review and decisions.
- **June 24:** The Board meeting at DHEC in Columbia approved seven (7) Round 03 projects for periods of twelve to twenty-four months (see page 9), and deferred action on two of three Round 02B (Rehabilitation) applications until RFP further refinement and reissue by the end of calendar year 2004. It also approved a draft FY 04/05 Budget (see below and **Appendix 3**) with 5% time/salary increases for the Scientific Directors; several no-cost extensions for Round 01 projects; initial priorities and timelines for Round 04 RFP development; preliminary plans for a Fund Scientific Conference to be held in Spring of ‘05; nominee to replace unfilled Board position; a “participant pool” concept and funding mechanism to facilitate immediately accessible research subjects; a “tracking markers” reporting requirement addition to all applications to insure consistent and comprehensive data for project evaluations; and a briefer “Annual Report” format to be augmented with a Fund informational brochure.

BUDGET DISCUSSION: The FY 03-04 budget witnessed the second full year of research project activity with final budget and expenditures as follows:

<u>FY 03-04 SCIRF</u>	<u>BUDGET</u>	<u>EXPEND</u>
<u>PROGRAM ADMINISTRATION</u>	\$ 29,836	\$ 32,184.08
<u>RESEARCH DEVELOPMENT</u>	\$ 54,352	\$ 21,093.53
<u>FUND ROUND 1 PROJECTS</u>	\$ 418,560	\$ 228,718.91
SCIRF 0202 McGinty 38,781		\$ 15,605.81
SCIRF 0302 Haines 65,497		\$ 17,787.70
SCIRF 0602 Middaugh 45,319		\$ 43,762.98
SCIRF 0802 Wilson 79,232		\$ 67,305.00
SCIRF 1102 Hickman 51,428		\$ 51,427.56
SCIRF 1202 Short 54		\$ -0-
SCIRF 1302 Krause 115,684		\$ 18,420.80
SCIRF 1402 Kindy 22,565		\$ 14,404.96

SOUTH CAROLINA SPINAL CORD INJURY RESEARCH FUND

<u>FUND ROUND 2 PROJECTS</u>			<u>\$ 830,362</u>	<u>\$ 386,837.65</u>
SCIRF 0103	Short	65,000		\$ 50,451.45
SCIRF 0303	Gao	149,890		\$ 72,136.93
SCIRF 0403	Molinar	74,892		\$ 72,475.66
SCIRF 0503	Pickelsimer	150,000		\$ 32,988.67
SCIRF 0603	Morrisette	75,000		\$ 37,353.38
SCIRF 0703	Brotherton	75,000		\$ 30,310.07
SCIRF 0803	Ray	137,000		\$ 13,662.91
SCIRF 0903	Bhat	24,988		\$ 13,970.13
SCIRF 1003	Goodkin	3,000	<i>(never funded)</i>	\$ -0-
SCIRF 1103	Barbosa	75,000		\$ 63,398.25
 <u>TOTAL 03-04 SCI ANNUAL BUDGET:</u>			 <u>\$ 1,333,110</u>	 <u>\$ 668,834.27</u>

While it might appear that approximately half of the FY 03-04 budget was saved, the \$ 1.3 Million total included obligations for the full project periods of all projects awarded—some for as long as 18 months. These funds will continue to be expended until the projects actually end as can be noted in a review of the following budget approved for FY 04-05. The slight increase in Administration was due to a 3% cost of living increase for State employees as well as a slightly higher than estimated cost of printing and mailing the 02/03 “ANNUAL REPORT”. As mentioned in previous Reports, Program Administration saves significant funds each year through the assistance volunteered by several offices of MUSC including the Office of the President, Research Office, Grants Accounting, the MUSC Medical Center Marketing Department that coordinated the Annual Report statewide mailings, and the College of Health Professions which designed and maintains the Web page. **Appendix 3** includes all budget figure in much greater detail, and the “Cash Analysis” shows where there has been a recouping of some funds that remained unexpended as projects ended. Any and all such funds recouped, as well as any other Fund savings from any part of the budget, will be used to increase the amount of funds available for the future rounds of research projects and special initiatives.

The Board approved the following budget for FY 03-04 as well as the additional estimated amount available for Round 02A and 03 projects based upon a detailed cash analysis. This again exceeds the \$800,000 year-end “Reserve Target” set by the Board to assure that sufficient funds are always available to fully meet Fund budget commitments. Given the constant variation of monthly totals received through DUI collection (so far ranging from averages of \$ 72,000 to \$ 60,000) the Board established the Reserve Target to assure full fiscal control and accountability.

FY 04-05 SCIRF

PROGRAM ADMINISTRATION CORE \$ 30,931*

RESEARCH DEVELOPMENT CORE \$ 74,696*

ONGOING ROUND 01 PROJECTS (Extension) \$ 152,129

- | | |
|--------------------|--------|
| 3. Haines/Salassie | 47,709 |
| 13. Krause | 97,263 |
| 14. Kindy | 7,157 |

ONGOING ROUND 02 PROJECTS (Last 6 mos.) \$ 434,932

- | | |
|------------------|---------|
| 1. Short | 14,459 |
| 3. Gao | 77,753 |
| 4. Molinar | 2,416 |
| 5. Pickelsheimer | 112,011 |
| 6. Morrisette | 37,646 |
| 7. Brotherton | 44,690 |
| 8. Ray | 123,337 |
| 9. Bhat | 11,018 |
| 11. Barbosa | 11,602 |

APPROVED ROUND 03 PROJECTS \$ 606,597*

- | | |
|------------------|----------------|
| 1. Webb | 150,000 (2 yr) |
| 2. Short | 60,000 (1 yr) |
| 3. Wise | 150,000 (2 yr) |
| 6. Murdays. | 61,632 (1 yr) |
| 7. Mertz | 3,000 (1yr) |
| 8. Monger/Godkin | 70,000 (2yr) |
| 10. Selassie | 111,965 (2yr) |

TENT. COMMITMENT ROUND 02B PROJECT \$ 100,000*

TOTAL BUDGET ESTIMATE 04/05 \$ 1,399,285

***NOTE:** These four items totaling \$ 812,224 are the only new commitments in the budget. The remainder were committed in prior years.

APPENDIX 1—DETAILED BOARD INFO

~SPINAL CORD INJURY RESEARCH FUND BOARD~ (as of 07/01/04, initial appointments by Governor on 03/08/01)

~2 MEDICAL DOCTORS FROM THE STAFF OR FACULTY OF THE MEDICAL UNIVERSITY OF SOUTH CAROLINA (both initially appointed for 2 year terms, subsequentl 4 year terms).

- * **Phanor L. Perot, Jr, M.D., Ph.D.**, Charleston, SC— Board Certified in Neurological Surgery and Professor Emeritus of Neurosurgery at the Medical University of South Carolina and past Department Chairman. (*Term: March 08, 2003—2007*)
- * **David Griesemer, M.D.**, Charleston, SC— Board Certified in Neurology and serves as Chairman of the MUSC Department of Neurology and Associate Professor of Neurology and Pediatrics. (*Term: March 08, 2003—2007*)

~2 MEDICAL DOCTOR SPECIALIZING OR SIGNIFICANTLY ENGAGED IN THE TREATMENT OF SPINAL CORD INJURIES IN SOUTH CAROLINA (both appointed for 4 year terms).

- * **David L. Shallcross, M.D.**, Greenville, SC— Board Certified in Physical Medicine and Rehabilitation and conducts a private practice, Upstate Medical Rehabilitation, as well as serves as Medical Director of the inpatient rehabilitation unit at BonSecours St. Francis Health System in Greenville. (*Term: March 08, 2001—2005*)
- * **W. Daniel Westerkam, M. D.**, Columbia, SC— specialist in Physical Medicine and Rehabilitation who is Director of Rehabilitative Services at Palmetto Richland Memorial Hospital as well as Associate Medical Director at HealthSouth Rehabilitation Hospital in Columbia. (*Term: March 08, 2001—2005*)

~2 MEMBERS WHO HAVE A SPINAL CORD INJURY OR WHO HAVE A FAMILY MEMBER WITH A SPINAL CORD INJURY (4 year terms, one will serve only 2 years for the first term).

- * **Currently Vacant (replacement recommendation in process).** (*Term: March 08, 2003—2007*)
- * **Terry Peacock**, Columbia, SC— mother of a spinal cord victim who works for the Office of Minority Affairs of the SC Department of Health and Environmental Control. (*Term: March 08, 2001—2005*)

~1 AT LARGE MEMBER WHO IS A MEDICAL DOCTOR AND A MEMBER OF THE SOUTH CAROLINA MEDICAL ASSOCIATION (initial term of 3 years, 4 year terms thereafter).

- * **Brian G. Cuddy, M.D.**, Charleston, SC— Board Certified Neurosurgeon in private practice, Clinical Associate Professor of Neurosurgery at MUSC, and directly involved in establishing the Spinal Cord Injury Research Fund. (*Term: March 08, 2004—2008*)

APPENDIX 2—CUMULATIVE DUI

DUI FINE COLLECTIONS FOR THE SCIR FUND SINCE INCEPTION OF FUND *{running total last updated 07/08/04}*

	~2001~	~2002~
Jan.	\$ 4,285.00	43,035.45
Feb.	10,774.90	67,213.13
Mar.	26,570.32	110,797.84
Apr.	41,513.91	68,851.75
May	42,606.41	73,028.36
June	50,170.12	82,816.19
July	54,159.28	58,312.09
Aug.	62,635.31	76,064.34
Sept.	53,845.08	60,925.72
Oct.	61,642.97	67,764.04
Nov.	60,039.88	69,631.96
Dec.	<u>63,716.54</u>	<u>65,987.31</u>
	<u>\$ 531,929.72</u>	<u>\$ 849,428.11</u>

{TOTAL FIRST 24 MONTHS: **\$ 1,381,357.83**}

	~2003~	~2004~	~Cumulative~
Jan.	56,063.61	\$ 63,663.52	2,211,089.40
Feb.	79,548.82	57,270.58	2,268,359.98
Mar.	75,621.55	59,148.68	2,327,508.66
Apr.	67,871.19	57,654.32	2,385,162.98
May	69,933.84	68,408.00	2,453,570.98
June	64,092.46	49,806.85	2,503,377.83
Extra(6/30)	14,143.05	4,318.19	2,507,696.02
July	49,138.21		
Aug.	70,190.90		
Sep.	62,249.13		
Oct.	52,129.53		
Nov.	55,817.92		
Dec.	<u>49,267.84</u>		
	<u>\$ 766,068.05</u>	{avge per month of \$ 63,839}	

APPENDIX 3—FUND BUDGET INFO**~FY 03-04 BUDGET/EXPENDITURES: SCI RESEARCH FUND~**

		<u>BUDGET</u>	<u>EXPEND</u>
I. PROGRAM ADMINISTRATION		\$ 29,836	\$ 32,184.08
PERSONNEL (<i>Incl. F. B. at 26.6%</i>)	25,436		
Fund Administrator (20%) and Staff Assistant (20%)			
BOARD MEETING (<i>TRAVEL/MEALS/REFRESHMENTS</i>)	900		
Avg. 3 Board 300 mi. three times year @ .345 mi= \$ 300			
Meals at official meetings and while traveling (\$20x3x3)=\$180			
Meals/Refreshments for Board Meetings (\$14x10peoplex3)=\$420			
OTHER	3,500		
Printing stationery/envelopes (second run of 2,500)= \$ 500			
Printing letters, RFPs, Guidelines, insert card, report= \$200			
Printing first Annual Report=\$ 1,500			
Mail processing (Target Mail)/Postage of any major mailouts=\$200			
Other mailing throughout the year (RFPs, reports)= \$ 100			
Meeting support materials (visuals/photos)= \$ 500			
Photocopy and basic office supplies=\$ 500			
II. RESEARCH DEVELOPMENT		\$ 54,352	\$ 21,093.53
PERSONNEL (<i>Incl. F. B. at 26.6%</i>)	27,852		
Scientific Director (10.1%) and Assoc. Dir (5%)			
ANNUAL CONFERENCE SCIENTIFIC SESSIONS	10,000		
TRAVEL (Fund Promotion)	10,000		
REVIEW PROCESS (Stipends, Travel, Meetings, Meals)	6,500		
III. FUND ROUND 1 PROJECTS		\$ 418,560	\$ 228,718.91
SCIRF 0202 McGinty	38,781		\$ 15,605.81
SCIRF 0302 Haines	65,497		\$ 17,787.70
SCIRF 0602 Middaugh	45,319		\$ 43,762.98
SCIRF 0802 Wilson	79,232		\$ 67,305.00
SCIRF 1102 Hickman	51,428		\$ 51,427.56
SCIRF 1202 Short	54		\$ -0-
SCIRF 1302 Krause	115,684		\$ 18,420.80
SCIRF 1402 Kindy	22,565		\$ 14,404.96
V. FUND ROUND 2 PROJECTS		\$ 830,362	\$ 386,837.65
SCIRF 0103 Short	65,000		\$ 50,451.45
SCIRF 0303 Gao	149,890		\$ 72,136.93
SCIRF 0403 Molinar	74,892		\$ 72,475.66
SCIRF 0503 Pickelsh	150,000		\$ 32,988.67
SCIRF 0603 Morrisette	75,000		\$ 37,353.38
SCIRF 0703 Brotherton	75,000		\$ 30,310.07
SCIRF 0803 Ray	137,000		\$ 13,662.91
SCIRF 0903 Bhat	24,988		\$ 13,970.13
SCIRF 0903 Goodkin	3,000	<i>(never funded)</i>	\$ -0-
SCIRF 1103 Barbosa	75,000		\$ 63,398.25
TOTAL 03-04 SCI ANNUAL BUDGET:		\$ 1,333,110	\$ 668,834.27

**~FISCAL YEAR 04-05 BUDGET, SCI RESEARCH FUND~
 {DRAFT 5—Based on final FY 04 receipts and expenditures}**

I. PROGRAM ADMINISTRATION CORE		<u>\$ 30,931*</u>
PERSONNEL (<i>Incl. F. B. at 28.2%</i>)	26,531	
Fund Administrator (20%)		
BOARD MEETING TRAVEL/MEALS/REFRESHMENTS	900	
Avg. 3 Board 300 mi. three times year @ \$.345 mi= \$ 300		
Meals at official meetings and while traveling (\$20x3x3)=\$180		
Meals/Refreshments for Board Meetings (\$14x10peoplex3)=\$420		
OTHER	3,500	
Printing stationery/envelopes (second run of 2,500)= \$ 500		
Printing letters, RFPs, Guidelines, insert card, report= \$200		
Printing Second Annual Report=\$ 1,500		
Mail processing (Target Mail)/Postage of any major mailouts=\$200		
Other mailing throughout the year (RFPs, reports)= \$ 100		
Meeting support materials (visuals/photos)= \$ 500		
Photocopy and basic office supplies=\$ 500		
II. RESEARCH DEVELOPMENT CORE		<u>\$ 74,696*</u>
PERSONNEL (<i>Incl. F. B. at 28.2%</i>)	48,196	
Scientific Director (15%) and Assoc. Dir (10%)		
ANNUAL CONFERENCE SCIENTIFIC SESSIONS	10,000	
TRAVEL (Fund Promotion)	10,000	
REVIEW PROCESS		
Stipends(\$1,000), Travel(\$2,000), Meetings(\$3,000), and Mail(\$500)	6,500	
III. ONGOING ROUND 01 PROJECTS (Extension)		<u>\$ 152,129</u>
3. Haines/Salassie	47,709	
13. Krause	97,263	
14. Kindy	7,157	
IV. ONGOING ROUND 02 PROJECTS (Last 6 mos.)		<u>\$ 434,932</u>
1. Short	14,459	
3. Gao	77,753	
4. Molinar	2,416	
5. Pickelsimer	112,011	
6. Morrisette	37,646	
7. Brotherton	44,690	
8. Ray	123,337	
9. Bhat	11,018	
11. Barbosa	11,602	
V. APPROVED ROUND 03 PROJECTS		<u>\$ 606,597*</u>
1. Webb	150,000 (2 yr)	
2. Short	60,000 (1 yr)	
3. Wise	150,000 (2 yr)	
6. Murdays.	61,632 (1 yr)	
7. Mertz	3,000 (1yr)	
8. Monger/Godkin	70,000 (2yr)	
10. Selassie	111,965 (2yr)	
V. TENT. COMMITMENT ROUND 02B PROJECT		<u>\$ 100,000*</u>
TOTAL BUDGET ESTIMATE 04/05		<u>\$1,399,285</u>

*NOTE: These four items totaling \$ 812,224 are the only new commitments in the budget. The remainder were committed in prior years.

SOUTH CAROLINA SPINAL CORD INJURY RESEARCH FUND

~FY 2004/2005~
COMPOSITE BUDGET SPINAL CORD INJURY RESEARCH FUND
{DRAFT 5—Based on final FY 04 receipts and expenditures}

	<i>Base</i>	<i>F.B. (28.2%)</i>	<i>Sub-Totals</i>	<i>TOTALS</i>
SALARIES/WAGES				\$ 74,727
FUND ADMIN.				
Fund Administrator(20%)	20,695	5,836	26,531	
RESEARCH DEVEL.				
Scientific Direct.(15%)	23,175	6,535	29,710	
Assoc. Sci. Direct. (10%)	14,420	4,066	18,486	
<i>(Res. Dev. Sub-Total)</i>	<i>(37,595)</i>	<i>(10,601)</i>	<i>(48,196)</i>	
S/W Sub-Totals	58,290	16,437		
TRAVEL (Staff/Board)				10,900
Admin. Core (Board)			900	
Research Devel. Core			10,000	
OTHER				20,000
Admin. Core			3,500	
Research Devel. Core including Sci. Conf.			16,500	
SUBGRANTS				1,293,658
Round 1 Projects Unexp.			152,129	
Round 2 Projects Unexp.			434,932	
Round 3 Projects Award			606,597	
Round 2 B Available			100,000	
TOTAL				<u>\$1,399,285</u>

****NOTES:** Includes additional 5% time commitment for the two Scientific Directors plus a 3% cost-of-living raise as approved for all State employees. Four of the seven Round 3 projects are for 2 years; thus, while the full 2 year budget for all projects is committed during this FY, the estimate actual expenditures will be \$ 365,345 or less.

**SOUTH CAROLINA SPINAL CORD INJURY RESEARCH FUND—ONGOING
CASH ANALYSIS**

{FY 2004 YEAR END ADJUSTMENT—actual year end receipts and expenditures, 11/8/04}

• **INITIAL 18 MONTHS (01/01/01—06/30/02)**

Total Collections	977,703
Total Expenditures	<u>30,675</u>

• **UNCOMMITTED YEAR-END BALANCE** **947,028**

• **FY 03 (07/01/02—06/30/03)**

Carryover from Prior Period	947,028
DUI Collections through 06/30/03	<u>825,957</u>
TOTAL CASH	1,772,985

Program Admin. Core Expenditures	27,624
Program Scientific Core Expenditures	18,987
Round 01 Projects First 12 Mos. Expenditures	<u>301,951</u>
TOTAL EXPENDITURES	349,562

UNCOMMITTED YEAR-END BALANCE **1,423,423**

• **FY 04 (07/01/03—06/30/04)**

Carryover from Prior Period	1,423,423
• Recouped from ended Round 01 Projects	36,712
• Additional Collections through 06/30/04	<u>699,064</u>
TOTAL CASH	2,159,199

Program Admin. Core Expenditures	32,184
Program Scientific Core Expenditures	21,093
Round 01 Projects Expenditures	228,719
Round 02 Projects Expenditures	<u>386,838</u>
TOTAL EXPENDITURES	668,834

UNCOMMITTED YEAR-END BALANCE **1,490,365**

SOUTH CAROLINA SPINAL CORD INJURY RESEARCH FUND

• **FY 05 (07/01/04—06/30/05)**

Uncommitted Carryover from Prior Period	1,490,365
Additional Collections through 06/30/05(est)*	<u>720,000</u>
TOTAL CASH	2,210,365

Program Admin. Core Budget 04/05	30,931
Program Scientific Core Budget 04/05	74,696
Round 01 Ongoing Projects Committed	152,129
Round 02 Ongoing Projects Committed	434,932
Round 02B Tentative Commitment	100,000
Round 03 Ongoing Projects (24 month commitment)	<u>606,597</u>
COMMITTED FUNDS	1,399,285

UNCOMMITTED YEAR-END BALANCE (est)

811,080**

NOTES:

* DUI collections estimated at \$ 60,000 per month (*based on FY04 actual collections*).

** The minimum amount that will be available for any Round 02A Projects as well as new Round 04 Projects. This is slightly above the minimum year-end Board Reserve Target of \$ 800,000, but actual year-end cash balance will be considerably higher when adjusting for actual expenditures of the Round 03 projects, half of which are budgeted for a 24 month period.

TOTAL SCIRF EXPENDITURES SINCE 2001**FY 03 & 04****PROGRAM EXPENDITURES**

	FY03	FY04	TOTAL
PROGRAM			
ADMINISTRATION	27,623.95	32,184.08	\$ 59,808.03
RESEARCH AND DEVELOPMENT	18,987.08	21,093.53	\$ 40,080.61

FUNDED PROJECTS**ROUND 1 PROJECTS**

SCIRF 0202	McGinty	46,685.30	15,605.81	\$ 62,291.11
SCIRF 0302	Haines	57,852.09	17,787.70	\$ 75,639.79
SCIRF 0602	Middaugh	46,671.89	43,762.98	\$ 90,434.87
SCIRF 0802	Wilson	10,745.24	67,305.00	\$ 78,050.24
SCIRF 1102	Hickman	48,824.34	51,427.66	\$ 100,252.00
SCIRF 1202	Short	29,422.27	-	\$ 29,422.27
SCIRF 1302	Krause	9,315.59	18,420.80	\$ 27,736.39
SCIRF 1402	Kindy	53,434.51	14,408.96	\$ 67,843.47

ROUND 2 PROJECTS

SCIRF 0103	Short		50,541.45	\$ 50,541.45
SCIRF 0903	Bhat		13,970.13	\$ 13,970.13
SCIRF 1003	Goodkin (Never Funded)		-0-	\$ -0-
SCIRF 0303	Gao		72,136.93	\$ 72,136.93
SCIRF 0403	Molnar		72,475.66	\$ 72,475.66
SCIRF 0503	Pickelsimer		32,988.67	\$ 32,988.67
SCIRF 0603	Morrisette		37,353.68	\$ 37,353.68
SCIRF 0703	Brotherton		30,310.07	\$ 30,310.07
SCIRF 0803	Ray		13,662.91	\$ 13,662.91
SCIRF 1103	Barbosa		63,398.25	\$ 63,398.25

TOTALS FOR FUNDED PROJECTS	302,951.23	615,556.66	918,507.89
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TOTAL EXPENDITURES	<u>\$ 349,562.26</u>	<u>\$ 668,834.27</u>	<u>\$1,018,396.53</u>
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APPENDIX 4—BOARD AGENDAS

~AGENDA~

SPINAL CORD INJURY RESEARCH FUND BOARD
2:00 pm, Friday December 5, 2003
Embassy Suits Hotel/Airport Convention Center—RM 10/11r
5055 International Boulevard, North Charleston

Roll Call

Approval of Minutes

Report of Chairman

Report of Fund Administrator

- **DUI Collections Update**
- **FY 02/03 Annual Report**

Report of Scientific Director

- **Progress Report of Round 01 Projects (as of 06/30/03)**
- **Round 02A Request for Proposals**
- **Round 03 Request for Proposals**
- **Scientific Conference**
- **Update on Web Page**

Other Old Business

New Business

- **Date of Next Board Meeting**
- **Other New Business**

Adjourn

~ AGENDA~

SPINAL CORD INJURY RESEARCH FUND BOARD

Friday June 25, 2004, 12:00 Noon

**S.C. Department of Health and Environmental Control's Board Room 2600 Bull St.,
Columbia, SC.**

Roll Call/Introductions

Approval of December 05, 2003 Board Minutes

Approval of Notes on December 05, 2003 Rehabilitation Meeting

Report of Chairman

- **Nominees for Vacant Board Position**
- **Meeting with Governor or Representative**

Report of Fund Administrator

- **DUI Collections Update**
- **Draft 04/05 Budget**
- **Cash Analysis Update**
- **FY 03/04 Annual Report**

Report of Scientific Directors

- **Progress Report of Round 01 Projects**
- **Progress Report on Round 02 Projects**
- **Extension Request (SCIRF 1202)**
- **Discussion of Any Potential 02A Proposals**
- **Discussion of Round 04 Priorities and Timeline**
- **Participant Pool Concept**
- **Tracking Markers Concept**
- **Update on Web Page**
- **Plans for Scientific Conference/Project Directors Meeting**
- **Special Request for Continuation of SCI Data Base**
- **Scientific Review of Round 03 Proposals**
- **Scientific Review of Round 02B Proposals**

New Business

- **Date of Next Board Meeting**
- **Other New Business**

Adjourn

APPENDIX 5—RFPs ISSUED FY 03-04

RFP 02A (Recruitment)

Request for Proposals: The South Carolina Spinal Cord Injury Research Board invites grant and contract applications to promote the recruitment of scientists who specialize in the area of spinal cord injury to the state of South Carolina.

Funding Mechanism

Qualifying institutions within the state of South Carolina may apply for a grant of \$75,000 to assist in the recruitment of a scientist specializing in the area of spinal cord injury. Recruitment may be based on the availability of a particular individual under consideration for a position opening or to initiate a search where no specific individual has yet been identified.

In the latter circumstance, evaluation of the request will be based upon the qualifications of the individual, the candidate's relevant research experience with spinal cord injury, and her/his potential to develop a stable research program in spinal cord injury. The request should outline how funds will be utilized by the investigator to promote spinal cord injury research. Utilization of funds to develop research laboratories or to accrue other needed types of equipment that is necessary to perform the research will be a priority.

If no specific individual has been identified, an organization or an entity within an organization, such as a specific department or college within a university, may request funds to recruit a researcher with expertise in spinal cord injury. In this case, the application must highlight the program to which the individual is being recruited and the qualifications of an acceptable applicant. If an award is made to institution to initiate a search for qualified spinal cord injury researcher, the institution will be required to gain approval of the specific individual after a specific candidate has been identified. Whereas the goal of the preliminary application is to evaluate the need of an environment to which the individual will be recruited, the second more abbreviated review will focus on the extent to which the individual meets the initial approved recruitment. This step is necessary to ensure that the primary focus of the scientist is in the area of spinal cord injury. Institutions will have a twelve month period from the time of the award to identify and recruit an appropriate candidate, although the actual hire date may exceed this timeframe. If a candidate has not been identified/selected at the end of twelve months, the money will revert back to the SCSCRIF.

Eligibility and Terms of Support: Applications will be accepted to recruit scientists to South Carolina who have a terminal professional degree in their field and, in the case of research involving human subjects, have access to an Institutional Review Board. This includes, but is not limited to, faculty members of research and educational institutions throughout the state. All applicants will be required to submit a two-page progress report within 60 days of the termination of the award period. In addition, all applicants will be required to present their research at a Spinal Cord Injury Research Fund meeting and to have prepared a research proposal on SCI to be submitted within 6 months of the termination of the award. Multiple applications may be submitted from the same institution, but no institution may hold more than 1 grant at a time for which a specific candidate has not been identified. Once an institution has successfully competed for recruitment grant and has filled that position with a qualified applicant, they will then become eligible to apply for and obtain an additional award for a different candidate or position. The factors that will determine whether a second grant is funded will be quality of the application and availability of funds.

Funding: Grant or contract support will be awarded initially for 24 months (i.e., the individual will have 24 months to expend the funds and may request a no cost extension after that time). Funds will be provided to the individual once they have moved to a SC institution of higher education. Institutions may apply for and receive multiple awards for recruitment. However, no institution that has a current award for which there is no identified candidate may receive a second award until the first award has been utilized to successfully recruit a candidate with expertise in spinal cord injury research. A maximum of 20% of the award may be used to support the recruits salary and fringe benefits. The Spinal Cord Injury Research Fund does not provide support for indirect costs and any such related costs essential to the proposed research should be included in the direct cost budget request. Once the individual is recruited, the funds will be used only for salary support, supplies, or equipment. No funds will be used for the search.

RFP 02B (Rehabilitation Feasibility)

Request For Contracts: The South Carolina Spinal Cord Injury Research Board invites applications for a Phase I comprehensive study on the need and feasibility of enhancing primary rehabilitation services across the state of South Carolina. Primary rehabilitation is defined as that which occurs during that time shortly after the onset of spinal cord injury (within the first few days to the first few months). It is noteworthy that there is only one CARF accredited rehabilitation facility in the state of South Carolina and this is located in the northern part of the state in Greenville.

Assessment of need should address: 1) the needs for rehabilitation in South Carolina; 2) what is being done to meet these needs, including the currently availability and general quality of inpatient rehabilitation services in South Carolina; and 3) what can be done to improve or enhance the rehabilitation services in South Carolina. Surveillance data is available to assist in the assessment of need and distribution of SCI by region throughout the state.

The major component of the study will involve an evaluation of the feasibility of a minimum of three (3) alternative models of rehabilitation. Comparison between traditional and nontraditional innovative models will be given a priority. Examples of possible traditional models to explore are: A) totally public state and federally supported and run state program; B) totally private program supported by non-profit and for-profit entities; C) combination of the A and B; D) long-term acute care facility. Alternative models may be inpatient, outpatient, or home and community based, and may follow models developed elsewhere and adapted to do the circumstances of the state of South Carolina. Based on the results of the study, applicants must provide suggestions on the potential for rehabilitation services as either a free standing facility or in conjunction with other existing organizations/entities existing in South Carolina.

The goal of this request for proposals is to identify one or more feasible options that may be realistically implemented to enhance rehabilitation services in the state of South Carolina. Therefore, applications that have the greatest potential to identify means of enhancing rehabilitation services in the state of South Carolina will be given priority. It is strongly recommend that applicants consult with at least one stakeholder group, such as the South Carolina Spinal Cord Injury Association and the South Carolina Brain Injury Alliance, in order to gain an understanding of need from the perspective of the stakeholders. Notes from a meeting held on December 5th among interested parties from around the state are attached to this announcement along with pertinent comments from Kermit Short (Director of the South Carolina Spinal Cord Injury Association) regarding special needs and concerns in the state of South Carolina. It

is recommended that applicants read the ideas, although applicants are not required to address these points unless they explicitly appear within the RFP itself.

Eligibility and Terms of Support: Applications will be accepted from individuals, groups, consultants and others in South Carolina who have expertise in performing feasibility studies for services. Upon receipt of funding, the awardee will have 6 months to provide a comprehensive written report on the study. The maximum award is \$100,000. At the three-month midpoint, the awardee will be required to present to the SCSCIRF Board of Directors the status of the study and will incorporate any suggestions into the final report. This report will be used to help generate support for a Phase II Development program. The awardee may be requested to attend meetings for the Phase II program.

Funding: Contract support will be awarded for 6 months. The Spinal Cord Injury Research Fund does not provide support for indirect costs and any such related costs essential to the proposed research should be included in the direct cost budget request.

RFP 03 (Round 03 Research Projects)

Request For Proposals: The South Carolina Spinal Cord Injury Research Board invites grant and contract applications for research on all aspects of spinal cord injury (SCI) in an effort to develop better understanding and ultimately treatment for paralysis and other consequences of spinal cord injury and disease. This is the third annual call for grants that outline innovative and potentially groundbreaking research. It is estimated that \$1,000,000 will be available for projects funded in response to this request.

Funding Mechanisms

1. Primary research grants will not exceed \$150,000 over a 24-month period. These will support research activities of junior faculty (usually within 1 to 5 years of their first faculty position or first research position) that range from basic science to applied science. Anticipated are three to four awards, with no more than a 2:1 ratio in either basic versus applied science. The primary goal of these research grants will be to perform studies that lay the foundation for larger projects that may bring federal funds into the state of South Carolina. We are particularly interested in funding at least one project that specifically addresses issues related to access to care or the health care delivery in the state of South Carolina. This project should address one or more of the following priorities: attendant care, access to primary rehabilitation, access to follow-up services, availability of physicians and other health care professions, the efficacy of existing programs, or outcomes associated with the quality of existing or pilot programs.
2. Career development awards will be utilized to support new investigators in the field of spinal cord injury, or to support the work of individuals crossing over to spinal cord injury research from other areas. A maximum of \$100,000 will be granted over an 24-month period. The primary goals of this mechanism will be to increase the likelihood that a researcher will be able to successfully compete for a federally funded K grant or other federally funded career development award upon completion of the project. The proposed award will give new investigators set-aside time from their other activities to focus on research, not to exceed 50% FTE, and lay the foundation for them to obtain awards. These awards may reflect either basic science projects or applied projects.

3. Small pilot grant funds of \$20,000-\$25,000 will be available for single year projects. The goal of this award is specifically to support investigators who need to collect a modest amount of pilot data or purchase equipment necessary to position themselves for NIH grants. This mechanism will support the work of senior investigators. Three to five such awards per year are anticipated as funding levels permit. This mechanism also will have a second midyear cycle in which proposal may come directly to the Scientific Director or Associate Scientific Director who will set up a review from an external panel and then submit recommendations to the Board regarding approval.
4. Up to \$70,000 (\$35,000/year) will be set aside for projects that disseminate the results of research to the citizens in South Carolina with spinal cord injury. This dissemination component is of great importance to the mission of the SCI Research Fund, as the information derived from the research studies must reach those individuals who can utilize it. Three types of activities will be supported under this mechanism: development of annual conference, generation of educational materials for consumers that may be directly disseminated to them (e.g., pamphlets), and funds for the continuation and updating of the website.

Eligibility and Terms of Support: Applications will be accepted from clinicians, therapists, educators, and scientists in South Carolina who have a terminal professional degree in their field and, in the case of research involving human subjects, have access to an Institutional Review Board. This includes, but is not limited to, faculty members of research and educational institutions throughout the state. All applicants will be required to submit a two-page progress report within 60 days of the termination of the award period. In addition, all applicants will be required to present their research at a Spinal Cord Injury Research Fund meeting and to have prepared a research proposal on SCI to be submitted within 6 months of the termination of the award.

Funding: Grant or contract support will be awarded initially for 24 months (except for pilot projects which are 12 months), with no guarantee of renewal. Further funding will depend on progress reports at 12-month intervals that include evidence of productivity, with consideration for renewal of projects that show progress or significant promise on re-submission. Reasonable amount of funds for support of the Principal Investigator's salary will be considered, but should not exceed 20% of the total requested budget (except for Career Development applications where it shall not exceed 50%). Grant or contract fund uses for equipment are not encouraged, but minor items will be considered provided they are clearly justified as absolutely essential to the successfully conduct of proposed research. Requests for travel should be focused on development of networking necessary for the conduct of research. The Spinal Cord Injury Research Fund does not provide support for indirect costs and any such related costs essential to the proposed research should be included in the direct cost budget request.

APPENDIX 6—12/05/03 REHAB MEETING

AGENDA—12/05/03 REHAB MEETING

- 1. WELCOME— Dr. Cuddy**
- 2. INTRODUCTION OF CO-CHAIR & PARTICIPANTS— Dr. Brabham, Dr. Herring, and Mr. Short**
- 3. EVENTS LEADING TO THIS MEETING— Co-Chairs and Participants**
- 4. CHARGE TO PARTICIPANTS— Co-Chairs**
 - Assist the SC Spinal Cord Injury Research Fund develop a Request for Proposals:***
 - To study need for and financial feasibility of*
 - Additional separately licensed inpatient rehabilitation beds and therapies in South Carolina*
 - For spinal cord and possibly related injuries*
 - With end target of a possible business plan for identified needs*
 - And give special priority to any cooperative study proposals partnering more than one of the SC research universities*
- 5. SCOPE OF PROBLEM/NEED— Dr. Selassie**
- 6. BACKGROUND OF CURRENT STATUS IN SC— Ms. Tyrell**
- 7. ANY POSSIBLE FUTURE STRATEGIES CURRENTLY BEING CONSIDERED— Co-Chairs and Participants**
- 8. PARAMETERS OF STUDY TO DEFINE AND MEET NEEDS— Co Chairs and Participants**
- 9. DRAFTING OF REQUEST FOR PROPOSALS— All**
- 10. THIRD PARTY FINANCING OF SCI AND TBI— Dr. Shallcross**
- 11. ADJOURN FOR LUNCH AND INFORMAL DISCUSSIONS**

ATTENDANCE 12/05/03 REHAB MEETING

Dr. David Griesemer

SC Spinal Cord Injury Research Fund Board &
Chairman
MUSC Department of Neurology
96 Jonathan Lucas Street, Suite 309
PO BOX 250606
Charleston, SC 29425

Dr. Anbesaw W. Selassie

Asst. Professor
MUSC Dept. of Biometry & Epidemiology
135 Cannon Street
PO BOX 250835
Charleston, SC 29425

Dr. Linda C. Veldheer

Director
Head and Spinal Cord Injury Division
SC Dept. of Disabilities & Special Needs
3440 Harden Street Extension
PO BOX 4706
Columbia, SC 29240

Ms. Lucerne Iseman

Assistant Commissioner
SC Vocational Rehabilitation Department
1410 Boston Avenue
West Columbia,
SC 29171

Mr. Larry C. Bryant

Commissioner
SC Vocational Rehabilitation Department
1410 Boston Avenue
West Columbia, SC 29171

Dr. David M. Ward

Associate Professor
Health Administration & Policy (CHP)
PO BOX 250807
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