

University System of Georgia Comprehensive Program Review

A. All Program Reviews

Please complete the following information. Note that the Degree/Major Name, Degree Acronym and the CIP Code MUST be the same as that listed in [Degrees and Majors Authorized](#). You will need Adobe Reader to view this file. (<http://www.adobe.com/products/acrobat/readstep2.html>)

Please complete the following information:

Institution Name

Southern Polytechnic State University

Date (MM/DD/YYYY)

03/05/2003

Degree/Major Name

Project Management Certificate/ Construction

Degree Acronym

Certificate

CIP Code

46049900

Degree Level

First Professional

College/School/Division

School of Architecture, Civil Engineering Technology, and Construction

Department

Construction

Were other closely related programs reviewed as part of this program review? Yes, the BS with majors in Construction are reviewed at the same time, provide that information.

Yes [\[Click here if you selected this choice\]](#)

No [\[Click here if you selected this choice\]](#)

Provide the names of these other programs so that we may connect these reviews.

BS Construction Major	
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Were external reviewers used to evaluate the results of the program's self-study?

Yes [\[Click here if you selected this choice\]](#)

No [\[Click here if you selected this choice\]](#)

If yes, please describe their role.

1. Review of Course Offerings 2. Review of Registration/Enrollment for the last five years and cost effectiveness. 3. Review of Draft Report on changes needed to improve performance. 4) Course descriptions of Undergraduate Course included in the certificate program	
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Year of Next Scheduled Program Review

Year

Accreditations Obtained (please spell out acronyms)

Following apply to BS Program of which Certificate Courses are a part.

SACS-Southern Association of Schools and Colleges-SPSU	
ACCE-American Council for Construction Education-B.S. Construction Program	

Year of initial accreditation or last program reaccreditation review

Year

Faculty Resources. Describe the faculty resources associated with this degree program by describing the faculty dedicated to the specific program, to the general education program, to services courses for other programs, etc. Include in your discussion the use of full-time and part-time faculty.

No specific faculty are dedicated to the Certificate Program. All Undergraduate and Graduate faculty are available to teach Certificate courses. Arlan Toy, David Pierce, Gouranga Banik, Brian Moore, Zuhair El-ltr, John Mench, and Khalid Siddiqi tech the Certificate Program courses. (See Table on page 14)	

For more information on this program review, contact

Name	<input type="text" value="Khalid Siddiqi"/>
Title	<input type="text" value="Head, Construction Program"/>
Phone	<input type="text" value="770-528-7221"/>
Email	<input type="text" value="ksiddiqi@spsu.edu"/>

Was this review...


- Scheduled? [\[Click here if you selected this choice\]](#)
- Triggered? [\[Click here if you selected this choice\]](#)

B. Scheduled Reviews of Programs

Use the *Short Form*, and complete for each program undergoing review.

CPR Findings and Plans for Project Management Certificate Construction Program at Southern Polytechnic State University

Major findings should focus on relevant factors from the [Comprehensive Program Review Guidelines](#) in the Academic Affairs Handbook. Major findings and recommendations should address the quality, productivity and viability of this program. (limit to 1000 words)

Findings & Recommendations	
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Findings

The Certificate in Project Management was practically started in spring 2001, therefore, it is too early to make changes in either curriculum or scope.

The program needs an enhanced marketing plan to increase enrolment, through a promotional effort by the office of admissions.

The availability of Alternative Hope Scholarship, to finance Certificate Program study, needs to be used as a marketing tool.

Support of career, counseling, and placement services needs to be extended to Certificate Programs.

Viability

The program needs to continue since it has a niche area of attracting working professionals of the construction industry, in need of scheduling, estimating and project management skills to improve their career and promotion opportunities.

Productivity

Since no separate faculty or different set of courses need to be designed for the Certificate Program, therefore, no additional resources are required for the program. The on-going undergraduate BS Construction courses are packaged for the Certificate in Project Management. As a result the Certificate Program offered has a higher (value added) productivity for the resources deployed for on-going undergraduate programs. It is too early to apply the standards for enrollment or completion.

Quality

Quality of the program can be judged by the following three factors. First, the American Council of Construction Education accredits the BS Construction Program, and part of its course work constitutes the Certificate program. Second, the Industry Advisory Committee, consisting of representatives from a major part of local construction industry, has appreciated the offering of the Certificate Program. Third, the Certificate program students have to meet the same admission and examination passing criterion, which is applicable to the BS Construction students.

Plans (Recommendations and Action Plan)

Some or all of the items listed below are contingent on receiving funding and necessary approval where needed.

1. Name Change of the Program/Department from Construction to Construction Management and re-assignment of degree/certificate CIP Code to 52.2001 (recently added by the US Department of Education).
2. Improvement and automation of Construction Estimating Lab through the use of digitizers and better computers
3. Devise an improved outcome assistance program, at the institutional level, tied to the certificate program goals. The outcome assessment program, carried out by Institutional Research and Planning of SPSU, needs indicators (measures) that show progress towards stated objectives that include data analysis and conclusions of the data collected. This would facilitate measurement of changes in student, alumni, and employer evaluations over time. Parts of the outcome assessment program are used but are not tied to specific goals and objectives of the program.

4. Support for maintenance and replacement of recently acquired computer equipment.
5. Additional funding is needed for library holdings related to the Construction Program.
6. The library hours of operation need to be extended to 10 PM from Monday through Saturday.
7. Utilization of Career Services for broader employment opportunities for graduates.
8. Establishment of an endowment fund to insure long-term stability of income for program support (industry funding).
9. Promotion and marketing of the program to a larger demographic area.
10. Add distance learning course options, which involves faculty re-assigned time and financial incentives.

Brief Clarification of the Planned Allocations and Sources of New Resources to be Dedicated to Program's Improvement in Future

No new resources identified at this point and time.

Project Management Certificate Review

Construction Program Vision and Mission

The Construction Program enrolls approximately 195 students in the four-year bachelors degree program and 40 in the masters program. The bachelors degree was started in 1985, the master's degree in 1995. We have two-degree programs and a minor. The undergraduate degree is a four-year Bachelor of Science in Construction. There are three concentrations in the BS Construction: General, Land Development, and Specialty Construction. The minor consists of a cross-section of CNST courses for NON-Majors. In addition, the program offers three certificate programs paralleling the concentrations. The graduate degree is a Master of Science in Construction.

The mission of the Construction Program is to prepare students for project management and executive roles in the construction industry. We offer comprehensive undergraduate and graduate programs comprised of a balance of general education, business and technical courses. We maintain close contact with firms that hire our graduates and with our alumni, and work in partnership with them to insure that what we teach remains current and meet the needs of the construction industry. We are a teaching faculty dedicated to helping students in their professional development. We fulfill our mission primarily through high quality instruction, but also through social interaction, counseling, advising and networking students into the construction industry. Our faculty is expected to maintain currency in their areas of expertise and to give full value to the students, our customers, who invest in one of our degree programs.

The following long (six years) and short-term goals were arrived at after consulting the Construction faculty at last year's annual retreat. These goals will be used to measure the program achievements.

Short Term Goals

The direction for the Construction Program established in the five-year strategic plan is centered on the following challenges:

- Review and update the undergraduate and the graduate curriculum by including more technology and e-commerce emphasis in courses
- Horizontal integration with other programs in the School of Architecture, Civil Engineering Technology, and Construction by expanding list of elective courses offered by other programs within the School for Construction students.
- Provide students a greater choice of electives through opportunities provided by the university.
- Reinforce the internship program to provide more hands-on-real-world experience through greater integration with industry professionals and alumni.
- Improve and upgrade instructional technologies and labs for traditional and distance education.
- Increase student access to faculty.

Longer Term Goals

- Establish the Ph.D. Program in Construction.
- Establish M.S. in Construction Engineering in collaboration with Electrical, Mechanical and Civil Engineering Technology Programs.

- Motivate research activities within the Construction Program and collaborate with other private and public institutions.
- Focus on national and international construction markets, for support, direction, and influence.
- Build upon and expand the core program competencies into broader areas to serve the rapidly changing construction industry demands, and prepare our students to be the leaders and adaptable to construction e-commerce trends.
- Support the strategic directions of the University and School in improving visibility, enrollment and resources by challenging the existing institutional and operational paradigms of the present and preparing a course of action for the future which contributes to the transformation of the institution into the nation's premier technological university.
- Serve as the model for excellence in the State of Georgia and the US for construction education
- Maintain accreditation of the Construction Program by the American Council for Construction Education.

CNST Certificate Program Course Offering

Fig.1 Course Offerings Available to Certificate Program Students

Required Courses		No. of Sections			Last Academic Year
No.	Title	Summer	Spring	Fall	Average Enrollment
CNST 2000	Construction Graphics	--	2	2	24
CNST 3000	Computer App in Construction	1	1	1	16
CNST 3110	Bldg Techniques & Methods I	--	1	1	20
CNST 3160	Bldg Techniques & Methods II	1	1	1	23
CNST 3180	Bldg Techniques & Methods III	--	--	1	9
CNST 3280	MEP Codes & Loads	--	--	1	5
CNST 3310	Development Planning	--	--	1	10
CNST 3480	Estimating IV	--	--	4	4
CNST 3710	Site Planning	--	--	1	12
CNST 4570	Development Process I	--	--	1	9
CNST 4580	Specialty Project Mgmt (New)	--	--	--	--
CNST 4680	Energy Conservation (New)	--	--	--	--
CNST 4560	Construction Project MGNT	--	1	1	23

Fig.2 Elective Course Offerings Available to Certificate Program Students

Elective Courses		No. of Sections			Last Academic Year
No.	Title	Summer	Spring	Fall	Average Enrollment
CNST 2000	Construction Graphics	--	2	2	24
CNST 3110	Bldg Techniques & Methods I	--	1	1	20
CNST 3410	Construction Estimating	1	1	1	20
CNST 3420	Estimating II	--	1	1	19
CNST 3430	Estimating III	--	1	12	
CNST 3500	Building Codes	--	--	1	30
CNST 4510	Scheduling & Cost Control	1	1	1	18
CNST 4620	Development Process II	1	--	--	12
CNST 4710	Construction Safety	--	1	1	22
CNST 4760	Construction Law	--	1	1	21
CNST 4770	Development law	--	1	--	8

Student Enrollment

Certificate students enrolled per year and semester; during the last four years.

Project Management (practically started since 2001)

Year	Fall	Spring	Summer
2000	0	0	0
2001	5	2	1
2002	6	4	1
2003	--	8	--

Cost Effectiveness

The Certificate Programs do not add cost to program because all classes that are required are include in the undergraduate program

Summary of Seminars and Short Courses

Dates	Description	No. of Participants	Faculty Participants
Sept 11, 2001 Nov. 6, 2001 Nov. 2000 and 2001	Hard Bid CONSTRUCWARE Leadership and Communications organized by MCAG	Eight Sixteen Sixty	Seven Seven Dave Pierce
Feb. 2000	Competency Training for Fall Protection and Excavation	Six	Gouranga Banik
May, 2000	Introduction to OSHA	Eight	Gouranga Banik
April, 2000	Professional Engineering	Sixteen	Gouranga Banik
3 Thursdays per month – 9 months per year – 3 hours per day – started 2 ½ years ago	Commercial air-conditioning seminars conducted for the American Contractors Exchange – Live and interactive on internet	average 2 per seminar	John Mench
3 Fridays per month – 9 months per year – 2 hours per day – first year	basic air-conditioning seminars ACE – on internet as above	average 2 per seminar	John Mench
20 classes – 2000/2001 – 2 hours per class	Emerson Retail Services basic electricity & basic refrigeration	4 per class	John Mench

Faculty Contributions

DR. BANIK

Banik, G.C. and W. C. Barnes. "Issues and challenges for the Construction Industry". Accepted for presentation and publication in 2002 ASEE annual conference, Construction Engineering Division, Montreal, Canada, June 2002. *refereed.*

Banik, G.C. "Introductory Computer Applications for the AEC Education". Accepted for presentation and publication in 2002 ASEE annual conference, Architectural Engineering Division, Montreal, Canada, June 2002. *refereed.*

Banik, G.C. " Research Needs in Management and Organization of the Construction Industry". Accepted for presentation and publication in 2002 Associated School of Construction (ASC) annual conference, Virginia Tech., April 2002. *refereed.*

Banik, G.C. "Criteria for Construction Safety Incentive Program". Accepted for publication in American Professional Constructors, Journal of American Institute of Constructors, January 2002. *refereed.*

Banik, G.C. "Construction Productivity Improvement-Current US Perspective". *Journal of Construction Productivity*, CIB, Vol 7, No. 2, pp. 60-69, UK, Nov 2001. *refereed.*

Banik, G.C." Water Shortage and Possible Solutions in Metro Atlanta". Published in Georgia Engineer, Aug 2001, pp.45-46. Generated enormous interests among the academia, the community and the government agencies.

Banik, G.C., "Teaching Temporary Structures: Style, Content and Outcome". Proceedings of 2001 ASEE annual conference, Albuquerque, NM, June 2001. *refereed.*

Banik, G.C., "Risk Allocation in Design-Build Contracts". Proceedings of 2001 ASC annual conference, pp. 125-136, Denver, CO, April 2001. *refereed.*

Banik, G.C. "Mid Level Site Managers Responsibilities." Presented in *International Risk Management Institute Construction Insurance Conference*, Atlanta, GA, Nov. 2000.

Lars Angenent, Banik, G.C. and Sung, S. " AMBR Treatment of Wastewater at Low Temperature". Proceedings in 2000 WEFTEC annual conference, Anaheim, CA, Oct. 2000. *refereed.* Revised version is selected for publication in Water Research.

- Banik, G.C. "Construction Safety Education Satisfying Industry Needs". *Proceedings of 2000 ASEE Annual Conference*, St.Louis, Missouri, June 2000. **refereed.**
- Banik, G.C., "Robotics and Hazardous Construction Sites." Presented in 2000 IRMI Construction Insurance Conference, Chicago, IL, Nov 2000.
- Banik, G.C., "Construction Productivity Improvement." *Proceedings of 1999 ASC Annual Conference*, San Luis Obispo, California, pp. 165-178, April 1999. **refereed.**
- Banik, G.C., "Robotics Applications in Hazardous Construction Sites." *Implementation of Health and Safety on Construction Sites (Edited by Dr. Hinze et al)*, March 1999, pp.593-600. **refereed.**
- Banik, G.C., "Construction Productivity Improvement." *Presented and published in ASC Regional Conference*, Atlanta, GA, Nov. 1998.
- Banik, G.C., Viraraghavan, T., and Dague, R.R., " Temperature Effects on Anaerobic Kinetic Parameters." *Environmental Technology*, Vol. 19, pp.503-512, July 1998. **refereed.**
- Banik, G. C., and Dague, R.R., "Influence of Substrate Concentration on ASBR Treatment Performance and Kinetics at Psychrophilic Temperatures." *Proceedings of 1997 CSCE-ASCE Environmental Engineering Conference*, Vol. 2, pp.1069-82, Edmonton, Canada, July 1997. **refereed.**
- Banik, G.C. and Dague, R.R., "Structure and Methanogenic Activity of ASBR Granules Treating Dilute Wastewater at Low Temperature." *Proceedings for IAWQ conference (8th Anaerobic Digestion)* Sendai, Japan, May 1997. **refereed.**
- Banik, G.C., Sung, S., and Dague, R.R., "ASBR Granule Size Distribution Model under Psychrophilic Conditions". *Proceedings of American Filtration and Separation Society (AFS) Conference*, Minneapolis, MN, April 1997. **refereed. Best paper award.**
- Banik, G.C. and et al., "Road Construction in Dhaka City". *Proceedings of 1990 7th Conference for Senior Officials in Transportation*, University of Philippine, Manila, Philippine, Oct. 1990.
- Banik, G.C. and Nooruddin, S., "Aspects of Road Constructions in Relation to Traffic and Accidents-A Case Study." *Annual Engineers Conference-Engineers Institution*, Dhaka, Bangladesh, November 1988. **refereed.**
- Banik, G. "Planning uplift in keeping view of possible sea level rise". *The Bangladesh Observer*, October 1988.
- Banik, G., "Highway Financing- Bangladesh". *The Bangladesh Observer*, June 1988.

DR. MOORE

PROFESSIONAL PAPERS/ PRESENTATIONS:

- "Teaching from a Distance with WebCT," (in preparation) a paper to be presented at *Construction in the 21st Century*, a conference to be held in Miami, FL in July 2002.
- "Retaining Knowledge: The Achilles Heel of Corporate America," (in preparation) a paper being prepared in collaboration with Dr. Syed Ahmed, Florida International University, that will be submitted to the *International Journal of Project Management* in June or July 2002.
- "Safety Among the Hispanic Workforce," a paper co-authored and presented at the Associated Schools of Construction conference in Birmingham, AL--November 2001.
- "CIM & CIC: An Overview," a paper presented at the First International Conference on Information Systems in Engineering and Construction, Cocoa Beach, Florida--June 2001.
- "Construction Education: A Change In Direction," a paper presented at the First International Conference on Information Systems in Engineering and Construction, Cocoa Beach, Florida--June 2001.
- "Construction in Space: Fact or Fiction," a presentation made to the Atlanta Chapter of the Construction Management Association of America, Atlanta, Georgia—October 1995.
- "Animation of Automated Space Construction," in *Proceedings of ASCE Construction Congress '91*, held in Cambridge, Massachusetts—April 1991.

ARTICLES AND COLUMNS:

Moore, B. (1995). "AirSolar," an article that discusses the use of photovoltaics and other means of conserving energy at the Hartsfield Atlanta International Airport, Nov. 13, 1995.*

Moore, B. (1996). "Airport Wind Power," an exploration of natural and artificial wind power at airports, Jan. 8, 1996.*

Moore, B. (1996). "Electric Vehicles in the Space Age," a brief discussion of the evolution of the electric vehicle and the reasons for its emergence as the preferred transportation technology for the twenty-first century, March 18, 1996.*

* Appearing in a bulletin published at the Hartsfield Atlanta International Airport.

DR. EI-ITR

PUBLICATIONS--ACKNOWLEDGED CONTRIBUTION:

El-Itr, Z. and R. Kangari (1994). "Improving the Effectiveness of Equal Business Opportunity Programs." *J. of Professional Issues in Engineering*, ASCE, 120(3), 195-313, New York, NY.

El-Itr, Z. and R. Kangari (1994). "Minority Contractors: Framework for New Policy Development." *J. of Construction Engineering and Management*, ASCE, 120(3), 632-649, New York, NY.

Kangari, R. and Miyatake, Y. (1993). "Computer Integrated Construction in the U.S.: Part I - Industry Review." *J. of Architectural Planning and Environmental Engineering*, AII, 446(April), 175-182.

Kangari, R. and Miyatake, Y. (1993). "Experiencing Computer Integrated Construction." *J. of Construction Engineering and Management*, ASCE, 119(2), 307-322, New York, NY.

DR. SIDDIQI

Siddiqi, K.M. et.al. (2002). *Partnering Impact On Change Orders For Mid Size Construction Projects*, published at Construction in 21st Century, organized by the Florida International University, Miami Florida June 2002.

Siddiqi, K.M. et.al. (2002). Value Engineering Benefits for Over Budget Commercial Projects, published at *10th International Symposium, Construction Innovation and Global Competitiveness, CIB Joint Working Commission 65 and 55. Organized by the University of Cincinnati, September 2002.*

Siddiqi, K.M. et.al. (2001). *Safety Among the Hispanic Work Force*, published in the ASC Regional Conference proceedings held at Montgomery, Alabama, November, 2001.

Siddiqi, K.M. et.al. (2001). *Using Benchmarks And Metrics To Evaluate Project Delivery Of Environmental Restoration Programs*, published, in The Journal of Construction Engineering and Management, American Society of Civil Engineers (ASCE), March 2003.

Siddiqi, K.M. (2000). *Distance Education Media: Technology Assessment*, published in the First International Conference proceedings on Information Systems In Engineering and Construction, Cocoa Beach Florida, June 6-8, 2001.

Siddiqi, K.M. et. al. (2000). *Value Engineering options for Over-Budge Projects*, published in the ASC Regional Conference proceedings held at Atlanta, Georgia, November 1-3, 2000.

Siddiqi, K.M. et. al.(1999). *Conceptual Estimating For General Contractors* published in the ASC Regional Conference proceedings held at Jacksonville, Florida in November 1999.

Siddiqi, K.M. et. al. (1998). *A case study of inner city Brownfield Redevelopment* published in the Associated Schools of Construction Regional Conference proceedings, held at Atlanta, Georgia, November 5-7, 1998.

Siddiqi, K.M. et. al. (1997). *Strategic Environmental Technology Policies Impacting the US Army's Global Readiness*, Contract number DACA88-94-D-0025, research project awarded to Georgia Institute of Technology by the US Army Contracting Office, Atlanta Georgia. Research project completed at US Army Environmental Policy Institute from January 1996 to June 1997.

Siddiqi, K.M. (1997). *Framework for Analyzing Construction Alternatives With Respect to Environmental Laws*, Ph.D. dissertation, School of Civil and Environmental Engineering, Georgia Institute of Technology, 1997.

Siddiqi, K.M. and Gregory, R. (1996). *Environmental Costing for Weapon Systems Acquisition*, Society of Cost Estimating and Analysis 1996 Conference, Orlando, Florida USA. June 25-28, 1996.

Other Publications And Research

Post Doctoral Research Faculty, *Assessment technology for sick buildings renewal within environmental compliance constraints*, National Science Foundation sponsored project, Georgia Institute of Technology, School of Civil and Environmental Engineering October 97 to August 1998.

Siddiqi, K.M., et. al. (1994). *Development of Urban Indicators & Models in Karachi*. Conference proceedings of Asia GIS/LIS AM/FM & Spatial Analysis Conference 28-31 March, 1994 Hong Kong.

Siddiqi, K.M. (1986). *Earthquake Risk & Preparedness Information for the Public: Case study of Karachi*. Proceedings of Middle East and Mediterranean Regional Conference on Low Rise Masonry Structures, Middle East Technical University, Ankara, Turkey, August 31 to September 7, 1986.

Siddiqi, K.M. (1986). *Seismicity of Karachi*: Technical Publication for professional Engineers, Architects and Builders. Karachi Development Authority publication, Karachi Pakistan, March 23, 1986.

Siddiqi, K.M. and Khan, M.A. (1986). *Evaluation of Earthquake Forces & Design of Earthquake Resistant Buildings for Karachi*. Proceedings of National Conference on Earthquake Engineering, organized jointly by Canadian Society of Civil Engineers and Institution of Engineers Pakistan, Quetta, Pakistan April 30, 1986.

Siddiqi, K.M. and Khan, M.A. (1986). *Seismic Design of Multistory Building & its Effects on Cost Estimates*. Proceedings of National Conference on Earthquake Engineering, organized jointly by Canadian Society of Civil Engineers and Institution of Engineers Pakistan, Quetta Pakistan April 30, 1986

Siddiqi, K.M. (1986). *Criteria for Design, Construction, and Detailing of Pedestrian Steel Overpasses*. Institution of Engineers Pakistan and Karachi Shipyard and Engineering Works, Seminar, Karachi Pakistan, June 28, 1986.

Siddiqi, K.M. and Loya, A.R. (1984). *Effects of Heavy Axle Modern Vehicles on Pavements & Bridges in Pakistan: Need for a revision in load criteria of Pakistan Highway Code*. Seminar on Bridges & Highway Engineering, Karachi, Pakistan, December 5-6, 1984, organized jointly by Canadian Society of Civil Engineers and Institution of Engineers, Pakistan.

Siddiqi, K.M. and Loya, A.R. (1984). *Existing Bridges of Karachi, Causes of their Deterioration & Techniques for their rehabilitation*. Seminar on Bridges & Highway Engineering, Karachi, Pakistan December 5-6, 1984, organized jointly by Canadian Society of Civil Engineers and Institution of Engineers, Pakistan.

Siddiqi, K.M. (1980). *Use of Super Plasticizers in Ferrocement*. M.Eng. Thesis at Asian Institute of Technology, Bangkok, Thailand.

Siddiqi, K.M. (1978). *Analysis & Design of Raft Foundation: Comparison of different methods*. Research Project in B.S. Civil, N.E.D. University of Engineering and Technology, Karachi, Pakistan.

DR. TOY

Toy, G. Arlan, Brisbane Brown, "Auxiliary and Supporting Equipment", Shotcrete Manual, American Concrete Institute, Detroit, Michigan, 1978. Chapter 9 pp 1-47. Toy, G. Arlan (Principal Investigator) and Michele La Morte, Force Account Pilot Project, Technical Publication No. 26, School of Building Construction 1983, pp. 178.

Toy, G. Arlan (Principal Investigator), David W. Perley, Mark T. Valin, W. David Mulkey, A Study of the Total Impact of the Construction Industry on Florida's Economy, Technical Publication No. 30, School of Building Construction 1984, pp. 131.

Toy, G. Arlan, "The Contractor's Role in Competitive Bid Construction", CEFJ Journal, Volume 24, Number 6, Council of Educational Facilities Planners, International, Columbus, Ohio, November-December 1986, pp. 10-14.

Toy, G. Arlan, "Management Course Enrichment: Video, Films, Articles, Abstracts, and Computers", Innovative Techniques in Construction Education, Proceedings of the 23rd Annual Conference of the Associated Schools of Construction, West Lafayette, Indiana,

April 1987, pp. 16-22.

Toy, G. Arlan (Principal Investigator), and Steven Howell, The Impact of the Florida Construction Industry on the State Economy, Technical Publication No. 49, School of Building Construction 1987, pp. 163.

Toy, G. Arlan and Luther J. Strange "Marketing Construction Services", Proceedings of the 1987 Regional Meeting of the Associated Schools of Construction, Atlanta, Georgia, October 1987, pp. 10.

Toy, G. Arlan, "Contractor Licensing Performance", Proceedings of the 1988 Regional Meeting of the Associated Schools of Construction, Savannah, Georgia, October 1988, pp. 24.

Toy, G. Arlan, A Model for Protecting the Public through Contractor Licensing, (1989 Dissertation), University Microfilms Inc.: Ann Arbor, Michigan, 1990. pp. 234.

Toy, G. Arlan, "Breach Vs Tort: Contractor Liability", Proceedings of the 1990 Regional Meeting of the Associated Schools of Construction, Orlando, Florida, November, 1990, pp. 6.

Toy, G. Arlan, and Robert O. Segner "Outcome Assessment", a white paper for the American Council for Construction Education, Monroe, Louisiana, November 1990. pp. 11.

Toy, G. Arlan (Principal Investigator), Applicability of a Mechanic's Lien Law Recovery Fund for the Florida Residential Construction Industry, Technical Publication No. 72, School of Building Construction 1991, pp. 88.

Segner, Robert, and G. Arlan Toy "Outcome Assessment in Construction Higher Education", Proceedings of the 27th Annual Conference of the Associated Schools of Construction, Provo, Utah, April 18-20, 1991, pp. 4.

Toy, G. Arlan, "Construction Education Program Planning and Assessment" Proceedings of the 1991 Regional Meeting of the Associated Schools of Construction, Hilton Head, South Carolina, October 18-19, 1991. pp. 6.

Toy, G. Arlan, "Role of Competencies in the Evaluation of Construction Education" Proceedings of the 1992 Regional Meeting of the Associated Schools of Construction, St. Augustine, Florida, November 4-5, 1992. pp. 5.

Toy, G. Arlan, "Proposal for a Student Oriented Application of the University System of Georgia Core Curriculum", Internal publication distributed to faculty of Southern Polytechnic State University, January 1996. pp. 24.

Toy, G. Arlan. "Digital Power-line Technology in Construction Business and Home Automation Application". Proceedings of the 2000 Annual Meeting of the Associated Schools of Construction, West Lafayette, IN. March 29-31, 2000. pp. 11.

Toy, G. Arlan. "The Economy, E-Commerce, and E-Construction". (accepted) The International Conference on Industry, Engineering, and Management Systems (IEMS) AND The International Conference on Computers and Industrial Engineering (28th ICC&IE) 2001 Joint Meeting, Cocoa Beach, Florida. June 7-8, 2001. pp. 13.

PROFESSOR PIERCE

Project Planning and Control For Construction, R.S. Means Co., Kingston, MA, 1988.

Project Scheduling and Management for Construction, R. S. Means Co., Kingston, MA, 1998. This text is the second edition of the previous work, and constitutes a rewrite to reflect more current practices in the industry.

Seminar in Construction Scheduling, R.S. Means Co., Kingston, MA, 1999. This seminar is a 2 day presentation of industry scheduling practices that will be given nationwide by R.S. Means.

Dr. MENCH

Paper published by International Electrical and Electronic Engineers-2002

Electrical Education for Constructors: Paper published by Association of Engineers – 2000

Indoor Air Quality

Book - Comment on Commercial Refrigeration – 1998, used by The Pennsylvania College of Technology as supplemental text.

Book - Comment on Commercial Air Conditioning – 1998, used by The Pennsylvania College of Technology as supplemental text.

Book - Plan Review - 1996

Reviewed technical paper as a consultant for EPRI - Electrical Power Research Institute 1992 & 1993

APPENDICES

1. Faculty and Staff Resources
2. Program Reviewers List
Institutional Research Report
3. Project Management Construction Student Characteristics

FACULTY & STAFF RESOURCES

A. Current Staff

ig. 19 Current Faculty List

Name	FTE	Highest Degree	Years on Staff	Tenured	Tenure Track	Non-Tenure Track	9 Month	12 Month
Wilson C. Barnes	1.0	Ph.D.	8	X				X
Khalid Siddiqi	1.0	Ph.D.	5		X		X	
Arlan Toy	1.0	Ph.D.	13	X			X	
Brian Moore	1.0	PhD.	3		X		X	
David R. Pierce	1.0	MBA	11	X			X	
Zuhair Itr	1.0	Ph.D.	7		X		X	
Gouranga Banik	1.0	Ph.D.	5		X		X	
John Mench	1.0	Ph.D.	2			X	X	
Part-time								
Professors:								
Nancy Turner		MS						
James Mullinax		MS						
Tore Knos		Ph.D						
Phil Beck		JD.						
Richard Martin		MS						

A. Current Staff

Current Support Staff

Name	% Full Time	Assignment
Maria Sanchez	100	Administrative Secretary

PROGRAM REVIEWERS

Professors from outside the School

Dr. Patrick Otoo Bobbie
Professor
770 528—4284
pbobbie@spsu.edu

Sidney Davis
Professor
770 528—7284
sdavis@spsu.edu

Industry Representative

John Lindstrom
LUSK & Associates, Inc.,
General Contractor in Alpharetta
Lusk & Associates
400 Curie Drive, Suite A
Alpharetta, GA 30005
(678) 624-0202
Email: jlindstrom@lusk-associates.com