

Final Technical Report

Award Number: DE-FC36-02GO12074

Project Title: Industrial Assessment Center Program

Project Period: 9/1/2002 to 11/30/2006

Recipient Organization: Syracuse University, Syracuse, NY, 13244

Partners: NA

Technical Contact: Frederick J. Carranti, P.E., Mechanical & Aerospace Engineering, 149 Link Hall, Syracuse University, Syracuse, NY, 13244, 315-443-4346 (P), 315-443-9099 (F), carranti@syr.edu

Business Contact: Stuart Taub, Associate Director, Office of Sponsored Programs, 113 Bowne Hall, Syracuse University, Syracuse, NY, 13244, 315-443-9356 (P), 315-443-9361 (F), staub@syr.edu

DOE Project Officer: Bill Prymak
US Department of Energy
1617 Cole Blvd., Golden, CO 80401
Phone: 303-275-4931
Fax: 303-275-4758
Email: bill.prymak@go.doe.gov

Executive Summary

During the contract period noted above, the Syracuse University Industrial Assessment Center conducted 97.5 assessment days for 98 different industrial clients. These assessments developed 818 assessment recommendations with an overall implementation rate of 51 % (AR's). Total recommended dollar savings for the period was \$17,386,758.00, with \$8,893,212.00 actually implemented, for a dollar implementation rate of 57%. The Center employed a total of sixteen undergraduate interns throughout the contract period. Nine of these students stayed on at Syracuse University for graduate study with Center support; five students pursued graduate study at other universities. Ten of these students have, or will, accept professional positions in the energy consulting field. The Center has successfully engaged with a wide variety of professional and development organizations, including the Manufacturers Association of Central New York, The Central New York Technical Development Organization, (the local

MEP), the New York State Energy Research and Development Authority, The New York Power Authority, the Onondaga County Citizens Energy Committee, and the New York State Center of Excellence on Indoor Environmental Systems.

Task Summary

Task 1: Conduct Industrial Assessments, to include a variety of plant types and sizes and well as coverage of the geographic area defined in the Annual Workplan Industrial Assessments:

During the contract period the Syracuse IAC conducted 97.5 assessment days for 98 industrial clients. These clients cover a wide range of company sizes. The industry sectors served include electronics, paper (wide variety), machinery, printing & newspapers, plating, casting, firearms, boilers & pressure vessels, plastics, aggregates, foods & dairy (wide variety), chemicals, steel & aluminum, glass, and textiles. These assessments resulted in a total of 818 AR's (recommended) for a total of \$17,386,758. (Recommended).

Task 2: Promote and increase the adoption of assessment recommendations and employ innovative methods to assist in accomplishing these goals.

We continually engage our clients, particularly those that are situated nearer to the Central New York region. For the contract period noted our assessment implementation rate is 51% (AR's). Many clients have pursued a broader relationship with Syracuse University and with the Department of Energy as a result of our overtures.

Task 3: Promote the IAC Program and enhance recruitment efforts for new clients and expanded geographic coverage.

We have expanded our geographic coverage to include a portion of Northern Pennsylvania, and we continue to approach our assigned region with a "shotgun" approach so as to distribute the service to the widest possible area.

Task 4: Provide educational opportunities, training, and other related activities for IAC students.

During the course of the award, sixteen students participated as employees of the Center. The majority, by far, of these students pursue graduate study in engineering or in engineering management, and most find permanent positions in the energy consulting industry. We have engaged with the CNYTDO (the local MEP office) to exchange training in energy assessment methods and in lean manufacturing. We have also placed interns with the MEP and with local consulting firms to expand our skill base.

Task 5: Coordinate and integrate Center activities with other Center and IAC Program activities, DOE's Industrial Technologies programs and other EERE programs.

We have always been available to respond to DOE/Rutgers requests for participation in efforts to enhance the viability and visibility of the program.

These efforts have included distribution of Best Practices software tools, conduct of “Save Energy Now” assessments, participation in the DOE Expert Certification program, development of case studies, and presentations at Directors’ Meetings. In addition, we have conducted six workshops or presentations at a variety of industrial fairs and conferences, and have submitted to two radio and newspaper interviews.

**Task 6: Other tasks or special projects, as needed, and as determined by DOE to be advantageous to the program and in furtherance of IAC Program goals.
(Described in Task 5, above.)**