

**BREVARD COMMUNITY COLLEGE
BOARD OF TRUSTEES
WORKSHOP**

August 20, 2001
3:00 p.m.

Room #168, Performing Arts Center
Melbourne Campus

PRESENT: Mr. Eugene C. Johnson, Chairman; Mrs. Miriam E. Martinez, Vice Chairman; Mr. James W. Handley; Dr. Alexandra M. Penn Williams, Mr. Joe D. Matheny, Attorney; Dr. Thomas E. Gamble, Secretary

ABSENT: Mrs. Betts O. Silvermail

1. CALL TO ORDER:

Mr. Johnson, Chairman called the meeting to order.

2. AEROSPACE TECHNICIAN PROGRAM UPDATE - Dr. Koller

Dr. Al Koller, Executive Director of the Aerospace Programs, provided a handout on the program. Dr. Koller reported that it has been one year since the business plan was presented to the Board of Trustees. Dr. Koller introduced Ms. Juanita Curtis, Office Manager; Mr. Dave Brotemarkle, Technical Coordinator; and Dr. Tom Steffen, Facility Manager. Dr. Koller reported the purpose of this workshop were to describe BCC aerospace operations, review status of program development, identify program opportunities and needs, and confirm commitments for the future.

Dr. Koller reported BCC has been involved with the following over its 40-year history: quality assurance training (KSC/CCAFS); shuttle "Thermal Protection System" training; workforce retraining and relocation assistance; Florida/NASA Business Incubation Center; training launch technicians; and operating the KSC/CCAFS Education Center, Patrick Center, and the new Spaceport Center. BCC has already been training launch technicians and BCC is getting ready to train them in a formal degree program. Approximately three years ago, there was a shift to an emphasis of export controls, which classified all space-based activities as munitions. There are huge export controls, which have almost killed off industry in this country in terms of any foreign export kinds of activities. There is a very flat environment at this time. Dr. Koller explained there is a retirement situation, which will cause a large turnover during the next three to five years of technicians all across the aerospace industry.

Dr. Koller reported that Governor Bush recognized Brevard Community College's aerospace program several times during the Space Summit II in July 2001. Dr. Koller reported BCC is currently the single entity for delivering space technician training on

Florida's east coast. BCC has a developing partnership with Palm Beach Community College. One of the key players in the industry group is Pratt-Whitney who will probably provide support in the form of scholarships and internships for students. Dr. Koller reported the high schools will be the next focus of the program. Within approximately one month, BCC hopes to file the framework for an aerospace AS degree in the State of Florida.

Dr. Koller reported on the status of program development and referred to last year's Board briefing, which listed the goals that were to be achieved throughout the 2000-2001 year. The first goal was to establish an advisory committee. There is now an Aerospace Technology Advisory Committee (ATAC), which was formed in June of 2000. It has grown into a steering committee now chaired by industry representatives that provided BCC with technicians for a development of curriculum exercise. This curriculum was approved on April 26, 2001, in a formal meeting. The ATAC now has five sub-committees in operation. The ATAC members have provided BCC commitment matrixes and letters of intent that include the level of scholarships they are willing to provide, the kind of mentors, and the access to their equipment and facilities. Dr. Koller reviewed the groups that make up the ATAC, which consists of groups from the government, industry, and academic areas. Dr. Penn Williams suggested involving the Circle of Science to be a part of this program. Dr. Koller reviewed the ATAC Roles Matrix and the letter of intent. The matrix was sent out two months ago and BCC is receiving commitments, daily, from various organizations. The newly established training laboratory is 1,100 square feet and houses 25 computers in the front part of the laboratory. The electronics laboratory is in the back. Dr. Koller reported on the third goal, which was to perform a development of curriculum (DACUM). This has been accomplished for the aerospace technician core. Dr. Koller reported on the goal of obtaining funding. BCC received a Horizon Jobs Grant of \$800,000 in November 2000. Dr. Koller reported BCC requested recurring funding for this year and was limited to 30% of the prior year award, which is \$266,000. If BCC is going to succeed at the National Science Foundation level, there needs to be a 40% match, which is why it is so important that BCC comes up with the matching money. Dr. Koller reviewed the fifth goal, which was to complete a curriculum and to initiate instruction. Classes began today, August 20, 2001, with the first of its kind course, never presented before entitled "Introduction to the Aerospace Workplace" with a full class of 25 students. This is a two-year program of either an AAS or an AS degree. BCC will take 25 new students each semester and those students will be a cohort group. Dr. Koller reported there is a strong on-hands emphasis, so classes are currently not available via online. Dr. Koller reported on the sixth goal, which was to establish an aerospace center. This was done at the Astronaut Memorial Foundation's Center for Space Education.

Dr. Koller reviewed the Aerospace Technician Training Program Development chart. There is a survey going on across the State of Florida, BCC has the funding from the State for the Horizon Jobs Grant, and BCC is in the process of getting ready to do the National Science Foundation National Center of Excellence grant proposal. Dr. Koller reviewed the new Spaceport Center Organization Chart. Dr. Koller reported on the two support organizations; Aerospace Technology Advisory Committee (ATAC) and the Community Colleges for Innovative Technology Transfer (CCITT). The CCITT was formed in 1994 as an NSF project. It was founded through BCC and chartered as a Florida corporation. When the original NSF grant terminated, the organization went dormant in 1999. BCC resurrected this consortium. The goal of CCITT for this project is to have, in place, a national system of colleges that can help develop, disseminate, and teach the curriculum for aerospace. Dr. Koller reviewed the NSF Grant Responsibilities Chart, which showed the kind of activities that will be involved with the National Science Foundation. Brevard has the lead on three of the activities; a professional association (NAAT), a certification program, and distance learning.

If successful, CCITT will receive \$3,000,000 from the National Science Foundation grant. Florida Space Research Institute (FSRI) has funded one of six unsolicited proposals that BCC has submitted. The ATAC has committed \$40,000 for scholarships and seed money. The CCITT schools have agreed to support the commitments, which were discussed earlier. The Fund 2 grants are now covering the full cost of this operation for the college. Dr. Koller reported the target is to become self-sufficient in two years. The program is constrained by lab space and student fees. There will need to be another source of funding or many grants. Dr. Koller reviewed the projected aerospace budget for the next five years. He also reviewed the BCC future commitments. The cost to sustain the program is estimated at \$450,000 per year. Dr. Koller reported that BCC will begin to seek additional grants. BCC will try to accelerate the workshops and two-day courses because the public will pay for these. Dr. Koller reported if the National Science Foundation grant does not come through, the Board will be asked to approve using Fund 1 requests for the budget for this program.

3. **ADJOURNMENT**

The meeting adjourned at 4:00 p.m.

APPROVED: _____
Chairman, District Board of Trustees

ATTESTED: _____
Secretary, District Board of Trustees

