

**Microgravity Science and Space Processing Technical Committee**  
**Space Processing Technical Award**  
**Evaluation Criteria and Scoring System**  
**Approved by the MSPTC, January 14, 2002**

**Background**

The AIAA Space Processing Technical Award (Space Processing Award) is presented for significant contributions in space processing or in furthering the use of microgravity for space processing. This award is presented biennially (in even-numbered years) at the AIAA Aerospace Sciences Meeting and Exhibit.

Simply by virtue of his or her nomination, each candidate is recognized as an outstanding contributor to Microgravity Sciences and Space Processing. The selection process has the purpose of selecting the most qualified from an exemplary group.

**Criteria**

The following four items are to be used in evaluating each candidate for the award. The sub-elements to each criterion are to be considered examples; substantial alternatives may be used. The percentage in parentheses is the weight of that criterion in the total evaluation of the candidate.

**I. Personal Impact or Accomplishments (40%)**

- Contributions to understanding: scientific or technological (egs. publications, awards, patents, etc.)
- Contributions to commercialization of microgravity science or space processing
- Contributions to microgravity science or space processing test beds.
- Contributions to government, industry or academic support for space processing

**II. Leadership (40%)**

- Magnitude of the effort or size of organization that was led
- Numbers and placement of students supervised in microgravity science or space processing research or technology development
- Establishment of a new scientific, technological or programmatic direction that has attracted a competitive following
- Advocacy of scientific rigor in microgravity science or space processing experiments

**III. Dedication or Commitment to Service and Support (10%)**

- Extensive, detailed work
- Long hours, perseverance
- Drive to see his/her vision fulfilled

**IV. Number of Service Years in Microgravity and/ or Space Processing (10%)**

## Scoring

For each candidate, reviewers:

1. Assign a rating from 1-10 (10 is the highest) for each category.
2. Multiply the category rating by the category weight for a category score (category scores range from 0.1 to 4.0).
3. Add the four category scores to obtain a total score for each candidate (total scores range from 1 to 10).

This table may be used to document the scoring (an example scoring is shown):

Rating: (1-10) Score=Rating*wt. Total Score = Σ Scores	Example		Candidate 1.		Candidate 2.		Candidate 3.	
	Category Rating	Category Score	Category Rating	Category Score	Category Rating	Category Score	Category Rating	Category Score
I. Personal Impact (wt.: 0.4)	9	3.6						
II. Leadership (wt.: 0.4)	7	2.8						
III. Dedication (wt.: 0.1)	8	0.8						
IV. Service Years (wt.: 0.1)	9	0.9						
Total Score		8.1						
Reviewer:								

The total scores from the review committee members for each candidate will be summed for a grand total score (grand total score for 8 reviewers range from 8 to 80.) The highest scoring candidate is considered the front-runner. The final selection of the winner is to be made via telecon between the review committee members.