

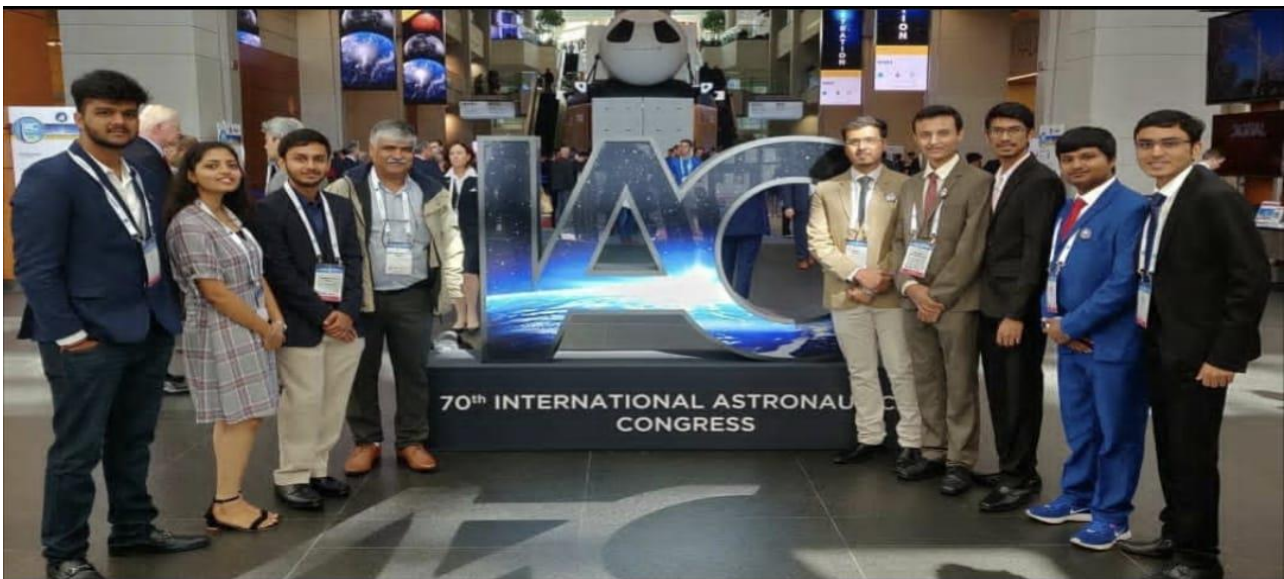
## Innovative Clubs Activities

### Antariksh



### **International Astronautical Congress 2019**

Team Antariksh marked its presence at the 70th International Astronautical Congress 2019 hosted in Washington, DC, USA. The team members met industry giants, professors from different institutes, Indian Nationals engaged in national and international institutes, personnel from ISRO and space agencies from other countries. A total of 9 papers were presented in multifarious symposiums.



### **RVSat-1 : Acceptance of PDR by ISRO**

The preliminary design review marks the second major milestone in the development process of approval of the payload for launch by ISRO. It includes a review of all the pre-requisite work done to begin the proper development phase for the payload, beyond which an MoU will be signed between RV College of Engineering and ISRO for the development and launch of the payload. The review was conducted by a visiting board from ISRO within the RVCE campus, in the presence of the honourable Principal Dr. K N Subramanya, PI Dr. Ravindra S Kulkarni and members of the team. The PDR was accepted by ISRO and the MoU was subsequently sent to ISRO for review.



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## Team Ashwa Racing



The RZ-X9H team participated in FS Hybrid 2019, New Hampshire where they won an overall 3rd place in the event.

Achieved 1st position in the project management segment.

We are one of India's premier FSAE teams, composed of undergraduate engineers who build and design formula style racing cars as well as mobility solutions for the future.



## Ham Club



### 1. Ham Workshop 2019:

The HAM Workshop was held on the 30<sup>th</sup> September, 2019 from 9.30 am to 4 pm in the Electronics and Communication Department Lecture Hall. The workshop was conducted by Dr.S.Sathyapal,VU2FI and Mr.Marcus,VU2VTM from the Indian Institute of Hams. This workshop aimed to promote and educate individuals about amateur radio, or HAM, operations. Dr. Sathyapal, a prominent figure in the field, outlined the importance of HAM communication during emergencies and explained the steps to obtain a HAM license. He emphasized the vital role of HAM operators in providing security during public gatherings. Mr. Marcus provided insights into the certification exam and simplified technical concepts related to radio communication. The event concluded with certificate distribution and a captivating demonstration by Dr. Sathyapal. This workshop highlighted the enduring significance of HAM technology in an era dominated by high-end communication methods, emphasizing the value of preserving and utilizing these traditional methods to address modern challenges.



### 2. Antenna Building Workshop 2020:

On February 22, 2020, the HAM club of RVCE organized an Antenna Building Workshop in the IEM Seminar Hall and NXP Lab, Department of ECE, with Manu M Pillai, VU3MIV (India), KB1UIS (USA) as the guest of honor. The workshop commenced with an informative introduction to amateur service (ham) and its societal applications. The session also covered the basics of antennas, including types, applications in communication, and crucial design parameters. Following this, participants engaged in





software simulations of a 3-element Yagi Uda antenna using 4nec2 software, led by Samana H Managoli, Managerial Head of RVCE HAM CLUB. The simulation involved complex calculations related to antenna dimensions.

In the afternoon session, Ananth G.S, the then Technical Head of RVCE HAM CLUB, guided attendees through a hands-on activity to construct a 3-Element Yagi-Uda Antenna designed to operate at 145MHz. This practical session allowed participants to understand the antenna-building process from scratch, including calculating dimensions, cutting PVC pipes, soldering wires, and connecting coaxial cables. The workshop provided valuable insights into antenna design and construction, enhancing participants' knowledge and practical skills in the field of amateur radio and antenna technology.





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## Team Jatayu



**2019:** Placed 27th overall in SUAS, 15th in flight readiness review.

**2019:** Participated in the WRC-RC-CRAFT challenge of Techno Xian, 5th International robotics league & World robotics championship. Held at New Delhi (India) from 23rd - 2th Sept.

**2019:** Secured 13th position in the event AERODOMINATOR 6.0, graVITas'19, an International Techno- management Knowledge Carnival, from 11-13 October.

**2020:** On the 28th of February, during the Flight'20 technical fest held at the Madras Institute of Technology Campus in Chennai, India, our team showcased exceptional talent and determination. We participated in a variety of events and emerged victorious, securing numerous prizes across different competitions. These competitions encompassed a wide array of technical challenges, allowing us to demonstrate our skills and knowledge in diverse areas. Our hard work, innovation, and dedication were recognized and rewarded, underscoring our success in conquering the challenges presented at Flight'20.



# DBF 2019



APRIL, 2019

TUCSON, ARIZONA, USA

## OBJECTIVE

The objective of the competition was to design a multi-purpose aircraft supporting carrier operations with specific design parameters.

## SUMMARY

The team was able to build a successful working design model. Despite not being able to take the model to the fly-off, the team secured the 41st rank in the final round of evaluation.

## RESULTS

### PROPOSAL

Rank -  
Finished 45th out  
of 138 Teams.

### FINAL

Rank -  
Finished 41st out  
of 113 Teams.







# DBF 2019



APRIL, 2019

TUCSON, ARIZONA, USA

### 2019 Design/Build/Fly Competition Final Results

| Rank | Queue # | Team Name                                    | Mission Scores |      |      |       |       | Report | 2019 DBF SCORE |
|------|---------|--|----------------|------|------|-------|-------|--------|----------------|
|      |         |  | GMI            | M1   | M2   | M3    | Total |        |                |
| 1    | 52      | University of Liebhana                       | 0.77           | 1.00 | 2.00 | 20.00 | 23.77 | 86.83  | 264.03         |
| 2    | 4       | Georgia Institute of Technology              | 0.43           | 1.00 | 1.87 | 16.00 | 19.29 | 50.83  | 1732.26        |
| 3    | 7       | St. JOHANNES University of Applied Sciences  | 0.74           | 1.00 | 1.82 | 16.00 | 19.55 | 87.85  | 1717.90        |
| 4    | 1       | University of Southern California            | 0.71           | 1.00 | 1.96 | 18.00 | 21.67 | 101.12 | 1636.46        |
| 5    | 1       | University of Southern California            | 0.71           | 1.00 | 1.96 | 18.00 | 21.67 | 101.12 | 1636.46        |
| 6    | 1       | University of Southern California            | 0.71           | 1.00 | 1.96 | 18.00 | 21.67 | 101.12 | 1636.46        |
| 7    | 1       | University of Southern California            | 0.71           | 1.00 | 1.96 | 18.00 | 21.67 | 101.12 | 1636.46        |
| 8    | 1       | University of Southern California            | 0.71           | 1.00 | 1.96 | 18.00 | 21.67 | 101.12 | 1636.46        |
| 9    | 1       | University of Southern California            | 0.71           | 1.00 | 1.96 | 18.00 | 21.67 | 101.12 | 1636.46        |
| 10   | 1       | University of Southern California            | 0.71           | 1.00 | 1.96 | 18.00 | 21.67 | 101.12 | 1636.46        |
| 11   | 1       | University of Southern California            | 0.71           | 1.00 | 1.96 | 18.00 | 21.67 | 101.12 | 1636.46        |
| 12   | 1       | University of Southern California            | 0.71           | 1.00 | 1.96 | 18.00 | 21.67 | 101.12 | 1636.46        |
| 13   | 1       | University of Southern California            | 0.71           | 1.00 | 1.96 | 18.00 | 21.67 | 101.12 | 1636.46        |
| 14   | 1       | University of Southern California            | 0.71           | 1.00 | 1.96 | 18.00 | 21.67 | 101.12 | 1636.46        |
| 15   | 1       | University of Southern California            | 0.71           | 1.00 | 1.96 | 18.00 | 21.67 | 101.12 | 1636.46        |
| 16   | 1       | University of Southern California            | 0.71           | 1.00 | 1.96 | 18.00 | 21.67 | 101.12 | 1636.46        |
| 17   | 1       | University of Southern California            | 0.71           | 1.00 | 1.96 | 18.00 | 21.67 | 101.12 | 1636.46        |
| 18   | 1       | University of Southern California            | 0.71           | 1.00 | 1.96 | 18.00 | 21.67 | 101.12 | 1636.46        |
| 19   | 1       | University of Southern California            | 0.71           | 1.00 | 1.96 | 18.00 | 21.67 | 101.12 | 1636.46        |
| 20   | 1       | University of Southern California            | 0.71           | 1.00 | 1.96 | 18.00 | 21.67 | 101.12 | 1636.46        |
| 21   | 1       | University of Southern California            | 0.71           | 1.00 | 1.96 | 18.00 | 21.67 | 101.12 | 1636.46        |
| 22   | 1       | University of Southern California            | 0.71           | 1.00 | 1.96 | 18.00 | 21.67 | 101.12 | 1636.46        |
| 23   | 1       | University of Southern California            | 0.71           | 1.00 | 1.96 | 18.00 | 21.67 | 101.12 | 1636.46        |
| 24   | 1       | University of Southern California            | 0.71           | 1.00 | 1.96 | 18.00 | 21.67 | 101.12 | 1636.46        |
| 25   | 1       | University of Southern California            | 0.71           | 1.00 | 1.96 | 18.00 | 21.67 | 101.12 | 1636.46        |
| 26   | 1       | University of Southern California            | 0.71           | 1.00 | 1.96 | 18.00 | 21.67 | 101.12 | 1636.46        |
| 27   | 1       | University of Southern California            | 0.71           | 1.00 | 1.96 | 18.00 | 21.67 | 101.12 | 1636.46        |
| 28   | 1       | University of Southern California            | 0.71           | 1.00 | 1.96 | 18.00 | 21.67 | 101.12 | 1636.46        |
| 29   | 1       | University of Southern California            | 0.71           | 1.00 | 1.96 | 18.00 | 21.67 | 101.12 | 1636.46        |
| 30   | 1       | University of Southern California            | 0.71           | 1.00 | 1.96 | 18.00 | 21.67 | 101.12 | 1636.46        |
| 31   | 1       | University of Southern California            | 0.71           | 1.00 | 1.96 | 18.00 | 21.67 | 101.12 | 1636.46        |
| 32   | 1       | University of Southern California            | 0.71           | 1.00 | 1.96 | 18.00 | 21.67 | 101.12 | 1636.46        |
| 33   | 1       | University of Southern California            | 0.71           | 1.00 | 1.96 | 18.00 | 21.67 | 101.12 | 1636.46        |
| 34   | 1       | University of Southern California            | 0.71           | 1.00 | 1.96 | 18.00 | 21.67 | 101.12 | 1636.46        |
| 35   | 1       | University of Southern California            | 0.71           | 1.00 | 1.96 | 18.00 | 21.67 | 101.12 | 1636.46        |
| 36   | 1       | University of Southern California            | 0.71           | 1.00 | 1.96 | 18.00 | 21.67 | 101.12 | 1636.46        |
| 37   | 1       | University of Southern California            | 0.71           | 1.00 | 1.96 | 18.00 | 21.67 | 101.12 | 1636.46        |
| 38   | 1       | University of Southern California            | 0.71           | 1.00 | 1.96 | 18.00 | 21.67 | 101.12 | 1636.46        |
| 39   | 80      | The Pennsylvania State University            | 0.00           | 1.00 | 0.00 | 0.00  | 1.00  | 05.67  | 65.67          |
| 40   | 99      | University of Notre Dame                     | 0.09           | 1.00 | 0.00 | 0.00  | 1.09  | 46.33  | 56.67          |
| 41   | 45      | Rashtrreeya Vidyalaya College of Engineering | 0.41           | 0.00 | 0.00 | 0.00  | 0.41  | 76.33  | 31.07          |
| 42   | 40      | University of California, Merced             | 0.36           | 0.00 | 0.00 | 0.00  | 0.36  | 76.93  | 27.67          |

|    |    |  |      |      |      |      |      |       |       |
|----|----|--|------|------|------|------|------|-------|-------|
| 41 | 45 | Rashtrreeya Vidyalaya College of Engineering | 0.41 | 0.00 | 0.00 | 0.00 | 0.41 | 76.33 | 31.07 |
|----|----|--|------|------|------|------|------|-------|-------|

# SKYSPARKS - TECHKRITI



TECHKRITI '19

MARCH, 2019

## OBJECTIVE

Objective of the competition was to design, fabricate, and demonstrate a fixed-wing aircraft system that can perform tasks with given constraints.

## SUMMARY

Two teams from Vyoma represented the college. Each team consisted of five members working towards the same objective with two separate designs.

## RESULTS

This model was suitable for:

- Food Package/Medicine Cargo-deliveries.
- Spraying pesticides on the fields.
- To combat wild fires.
- Surveying of places where manual surveying is tedious task.

**TECHKRITI '19**  
17<sup>th</sup> - 19<sup>th</sup> MARCH

**Skysparks**  
Abstract

Fill in the following Details:

TEAM NAME: Team Vyoma A  
Team Leader's Name: Guruprasad Joshi  
Team Leader's Contact Number: 7022142725

| S.No | Team Member        | College                      | Email                          | Contact Number | TECHKRITI ID |
|------|--------------------|------------------------------|--------------------------------|----------------|--------------|
| 1    | Guruprasad Joshi   | R. V. College Of Engineering | guru.prasad.rj@gmail.com       | 7022142725     | 11105        |
| 2    | Ahmed Fazlan       | R. V. College Of Engineering | ahmedfazlan94@gmail.com        | 9742075463     | 1815         |
| 3    | Sabaana A          | R. V. College Of Engineering | sabaanaa1213@gmail.com         | 7259192894     | 11294        |
| 4    | Prathmeshha Prasad | R. V. College Of Engineering | prathmeshha.prasad12@gmail.com | 7259192894     | 13739        |

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**TECHKRITI '19**  
17<sup>th</sup> - 19<sup>th</sup> MARCH

**Eppler 560**

Iteration source (VLR 1) Type analysis

Max Cl: 1.827  
Max Cl angle: 14.5  
Max L/D: 76.028  
Max L/D angle: 6.5  
Max L/D Cl: 8.88  
Stall angle: 14.5  
Zero lift angle: -6.5

Aerodynamic Characteristics obtained from the XFLR Analysis

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# DBF 2020



APRIL, 2020

TUCSON, ARIZONA, USA

## OBJECTIVE

Objective of the competition is to design and build a banner-towed bush plane capable of conducting chartered flights and carrying the mentioned payloads.

## SUMMARY

A well-tested final design model was ready. The fly-off was cancelled due to the pandemic, and the final design report submission was evaluated and results were declared.

## RESULTS

### FINAL

Rank -  
 Finished 87th out of 113 Teams.



**3.5.4 Wing Layout**

Wing placement is decided based on this below selection process:

| Parameters        | Advanced Wingplaner | Robotic Wingplaner | High Wing   | Mid Wing    | Low Wing    |
|-------------------|---------------------|--------------------|-------------|-------------|-------------|
| Weight            | 114                 | 0.2                | 3           | 3           | 3           |
| Drag              | 105                 | 0.19               | 4           | 5           | 3           |
| Thrust/Weight     | 105                 | 0.19               | 4           | 3           | 3           |
| Lift-to-Weight    | 80                  | 0.1                | 5           | 2           | 3           |
| Manufacturability | 30                  | 0.03               | 4           | 3           | 2           |
| Repairability     | 80                  | 0.1                | 4           | 3           | 2           |
| <b>Total</b>      |                     |                    | <b>3.22</b> | <b>2.77</b> | <b>2.32</b> |

**High wing:** High wing provides positive lateral stability at lower speeds because of the way airflow occurs on it, which means the aircraft can correct its orientation when encountered with turbulence.

**Mid wing:** This means the wing is placed in the mid plane of the fuselage, and also that the wing gets larger control surfaces. The mid wing configuration also means the aircraft has higher control, which is necessary for military planes.

**Low wing:** The low wing aircrafts are more stable than mid wing but lesser than high wing. The low wing aircrafts provide better longitudinal and directional control but for lateral stability it should be to be provided additionally to the aircraft.

**Final Conceptual Design:**  
 At the conclusion of the Conceptual Design, team reached a configuration designed to maximize the total score. The final configuration is a flying wing with tricycle landing gear and a single tractor propulsion system as shown in the figure 2.5 a. The configuration choices were made on the basis of score maximization by successfully competing all three measures of the competition.

Figure 2.5a Final conceptual design

# DBF 2020



APRIL, 2020

TUCSON, ARIZONA, USA

### 2020 Design/Build/Fly Competition Final Results

| Rank | Team   | Score | Remarks |
|------|--|-------|---------|
| 1    | University of Southern California                                      | 95    |         |
| 2    | Georgia Institute of Technology  | 93    |         |
| 3    | University of Nevada Las Vegas   | 91    |         |
| 4    | The Pennsylvania State University                                      | 90    |         |
| 5    | The City College of New York (CCNY) of the City University of New York | 90    |         |
| 6    | Massachusetts Institute of Technology                                  | 90    |         |
| 7    | Michigan State University  | 89    |         |
| 8    | The University of Arizona  | 89    |         |
| 9    | Florida International University                                       | 88    |         |
| 10   | The Colorado School of Applied Sciences                                | 88    |         |
| 11   | University of Notre Dame   | 87    |         |
| 12   | University of Minnesota - Twin Cities                                  | 87    |         |
| 13   | Virginia Polytechnic Institute and State University                    | 87    |         |
| 14   | University of Louisiana  | 86    |         |
| 15   | The University of Texas at Dallas                                      | 86    |         |
| 16   | University of Maryland   | 86    |         |
| 17   | Delta State University   | 85    |         |
| 18   | University of Illinois   | 85    |         |
| 19   | University of Nebraska Omaha   | 85    |         |
| 20   | University of North Carolina   | 85    |         |
| 21   | University of Oklahoma   | 85    |         |
| 22   | University of Texas at Austin  | 85    |         |
| 23   | University of Virginia   | 85    |         |
| 24   | University of Wisconsin  | 85    |         |
| 25   | University of Wyoming  | 85    |         |
| 26   | University of California   | 85    |         |
| 27   | University of Maryland - College Park                                  | 85    |         |
| 28   | University of Michigan   | 85    |         |
| 29   | Rutgers, The State University of New Jersey                            | 85    |         |
| 30   | San Diego State University   | 85    |         |
| 31   | University of Colorado   | 85    |         |
| 32   | University of Florida  | 85    |         |
| 33   | University of Texas at El Paso   | 85    |         |
| 34   | University of Wisconsin - Stout  | 85    |         |
| 35   | University of Wisconsin - Stevens Point                                | 85    |         |
| 36   | University of Wisconsin - Superior                                     | 85    |         |
| 37   | University of Wisconsin - Wausau                                       | 85    |         |
| 38   | University of Wisconsin - Whitewater                                   | 85    |         |
| 39   | University of Wisconsin - Oshkosh                                      | 85    |         |
| 40   | University of Wisconsin - La Crosse                                    | 85    |         |
| 41   | University of Wisconsin - Fond du Lac                                  | 85    |         |
| 42   | University of Wisconsin - Green Bay                                    | 85    |         |
| 43   | University of Wisconsin - Platteville                                  | 85    |         |
| 44   | University of Wisconsin - Stevens Point                                | 85    |         |
| 45   | University of Wisconsin - Superior                                     | 85    |         |
| 46   | University of Wisconsin - Wausau                                       | 85    |         |
| 47   | University of Wisconsin - Whitewater                                   | 85    |         |
| 48   | University of Wisconsin - Oshkosh                                      | 85    |         |
| 49   | University of Wisconsin - La Crosse                                    | 85    |         |
| 50   | University of Wisconsin - Fond du Lac                                  | 85    |         |
| 51   | University of Wisconsin - Green Bay                                    | 85    |         |
| 52   | University of Wisconsin - Platteville                                  | 85    |         |
| 53   | University of Wisconsin - Stevens Point                                | 85    |         |
| 54   | University of Wisconsin - Superior                                     | 85    |         |
| 55   | University of Wisconsin - Wausau                                       | 85    |         |
| 56   | University of Wisconsin - Whitewater                                   | 85    |         |
| 57   | University of Wisconsin - Oshkosh                                      | 85    |         |
| 58   | University of Wisconsin - La Crosse                                    | 85    |         |
| 59   | University of Wisconsin - Fond du Lac                                  | 85    |         |
| 60   | University of Wisconsin - Green Bay                                    | 85    |         |
| 61   | University of Wisconsin - Platteville                                  | 85    |         |
| 62   | University of Wisconsin - Stevens Point                                | 85    |         |
| 63   | University of Wisconsin - Superior                                     | 85    |         |
| 64   | University of Wisconsin - Wausau                                       | 85    |         |
| 65   | University of Wisconsin - Whitewater                                   | 85    |         |
| 66   | University of Wisconsin - Oshkosh                                      | 85    |         |
| 67   | University of Wisconsin - La Crosse                                    | 85    |         |
| 68   | University of Wisconsin - Fond du Lac                                  | 85    |         |
| 69   | University of Wisconsin - Green Bay                                    | 85    |         |
| 70   | University of Wisconsin - Platteville                                  | 85    |         |
| 71   | University of Wisconsin - Stevens Point                                | 85    |         |
| 72   | University of Wisconsin - Superior                                     | 85    |         |
| 73   | University of Wisconsin - Wausau                                       | 85    |         |
| 74   | University of Wisconsin - Whitewater                                   | 85    |         |
| 75   | University of Wisconsin - Oshkosh                                      | 85    |         |
| 76   | University of Wisconsin - La Crosse                                    | 85    |         |
| 77   | University of Wisconsin - Fond du Lac                                  | 85    |         |
| 78   | University of Wisconsin - Green Bay                                    | 85    |         |
| 79   | University of Wisconsin - Platteville                                  | 85    |         |
| 80   | University of Wisconsin - Stevens Point                                | 85    |         |
| 81   | University of Wisconsin - Superior                                     | 85    |         |
| 82   | University of Wisconsin - Wausau                                       | 85    |         |
| 83   | University of Wisconsin - Whitewater                                   | 85    |         |
| 84   | University of Wisconsin - Oshkosh                                      | 85    |         |
| 85   | University of Wisconsin - La Crosse                                    | 85    |         |
| 86   | University of Wisconsin - Fond du Lac                                  | 85    |         |
| 87   | Rashtreeya Vidyalaya College of Engineering                            | 63    |         |
| 88   | University of Wisconsin - Stevens Point                                | 85    |         |
| 89   | University of Wisconsin - Superior                                     | 85    |         |
| 90   | University of Wisconsin - Wausau                                       | 85    |         |
| 91   | University of Wisconsin - Whitewater                                   | 85    |         |
| 92   | University of Wisconsin - Oshkosh                                      | 85    |         |
| 93   | University of Wisconsin - La Crosse                                    | 85    |         |
| 94   | University of Wisconsin - Fond du Lac                                  | 85    |         |
| 95   | University of Wisconsin - Green Bay                                    | 85    |         |
| 96   | University of Wisconsin - Platteville                                  | 85    |         |
| 97   | University of Wisconsin - Stevens Point                                | 85    |         |
| 98   | University of Wisconsin - Superior                                     | 85    |         |
| 99   | University of Wisconsin - Wausau                                       | 85    |         |
| 100  | University of Wisconsin - Whitewater                                   | 85    |         |
| 101  | University of Wisconsin - Oshkosh                                      | 85    |         |
| 102  | University of Wisconsin - La Crosse                                    | 85    |         |
| 103  | University of Wisconsin - Fond du Lac                                  | 85    |         |
| 104  | University of Wisconsin - Green Bay                                    | 85    |         |
| 105  | University of Wisconsin - Platteville                                  | 85    |         |
| 106  | University of Wisconsin - Stevens Point                                | 85    |         |
| 107  | University of Wisconsin - Superior                                     | 85    |         |
| 108  | University of Wisconsin - Wausau                                       | 85    |         |
| 109  | University of Wisconsin - Whitewater                                   | 85    |         |
| 110  | University of Wisconsin - Oshkosh                                      | 85    |         |
| 111  | University of Wisconsin - La Crosse                                    | 85    |         |
| 112  | University of Wisconsin - Fond du Lac                                  | 85    |         |
| 113  | University of Wisconsin - Green Bay                                    | 85    |         |

