



Guide to the
NASA Student Space Settlement Design Contest Collection
ARC20.02

NASA Ames Research Center Archives

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Title: NASA Student Space Settlement Design Contest Collection

Collection Number: ARC20.02

Creator: Ames Research Center

Dates:

Inclusive: 2000-2018

Bulk: 2006, 2013, 2015

Extent: Volume: 2 cubic feet (with 82 digital copies, 1.01 Gigabytes)

Repository:

NASA Ames Research Center Archives

Moffett Field, California 94035

Abstract:

This collection contains a selection of student entries for NASA's annual space settlement design contest in the form of thirty four original artworks and ten technical reports created by students from around the world in grades twelve and under. Also included is a 2008 technical paper about the contest and the lessons learned from it, and a photograph of contest ephemera (a clock). The bulk of the collection has been digitized.

Administrative Information

Access: Collection is open for research.

Publication Rights: Copyright does not apply to United States government records. For non-governmental material, researcher must contact the original creator.

Languages and Scripts: All records are in English.

Preferred Citation:

Expanded:

NASA Ames Research Center Archives, NASA Ames Research Center. Moffett Field, California. ARC20.02, NASA Student Space Settlement Design Contest Collection, [Container number] : [Folder number]. [Identification of item]. [Date, if available].

Abbreviated:

NASA ARC. ARC20.02, [Container number] : [Folder number]. [Identification of item]. [Date, if available].

Acquisition Information:

Transferred by Ruth K. Globus on February 6, 2020 (Accession 2020-002).

Accruals: Official NASA digital photographs of the front sides of the works, as captured by Ames Research Center photographer Dominic Hart were added to this collection in August 2023 (Accession 2023-016, ARC-TR-2023-016).

Administrative History

NASA Ames Research Center sponsored an annual international student space settlement design contest from 1994 to 2018, in conjunction with the National Space Society. The contest was co-founded and led by Ames scientist Al Globus. Each year, students were tasked with designing a permanent orbital space colony, with no restrictions on how their design should be executed or presented. Entries ranged from detailed engineering reports to artistic conceptualizations developed by both individuals and teams. The contest was intended for students in the sixth to twelfth grades, with students in different grade levels being judged separately. Over the years, participants in lower grades also submitted entries, which were accepted, and some won awards. Several categories of awards were given out, including one for art and a grand prize for the overall best entry. Submissions had to be mailed by post in paper form to arrive at Ames by March 31 of each year to be judged by a panel of the center's scientists and engineers. To keep costs down while also engaging students from around the world, administration of the contest was largely conducted through an informational website developed by Al Globus. In 2019, sponsorship of the contest, along with the website, was transferred to the National Space Society. (An archived copy of the 2018 version of the website is in the NASA Ames Research Center Archives. See Related Collections.)

Scope and Content

This collection comprises a conference paper about the contest presented at the 2008 International Conference on Environmental Systems, and a small assortment of contest entries from students around the world, which were accumulated by Ames senior scientist Ruth Globus. She participated as a judge and, for a time, was a NASA civil servant sponsor for the contest. Globus displayed some of the artwork in her office over the years. Also included is a photograph of space settlement design contest ephemera in the form of a clock that sat on a bookshelf in Globus's office at Ames.

Contest entries in this collection include ten technical reports, most of which are grand prize winners, and thirty four original artworks submitted by students in grades twelve and below from schools in Bulgaria, Hong Kong, India, Ireland, Romania, South Korea, and the United States. Many of the artworks received prizes for artistic merit. Some submissions have entry forms with more information, including short descriptions from the students.

The bulk of the collection has been digitized. A file index is provided for this material.

System of Arrangement

Contest entries are arranged chronologically by type (artwork or report), then by artist and team. Digital reproductions of artwork files are arranged in two sets. One set in PDF format provides reproductions of both sides of the works as well as any supporting documentation. A second set in JPG format provides official NASA photographs of the front sides of the

works, as captured by Ames photographer Dominic Hart (NASA photograph catalog series ACD23-0090).

Indexing Terms

The following terms may be used to index this collection.

Corporate Name

Ames Research Center

Personal Name

Globus, Al

Globus, Ruth K. (Ruth Kathleen), 1954-

Subjects

School contests

Space (Art)

Space Colonies--Design and Construction

Related Collections

Archives Reference Collection, AFS1070.8A (NASA Space Settlements Website, 2018)

File List

Artworks/PDFs

01.pdf	13.pdf	25.pdf
02.pdf	14.pdf	26.pdf
03.pdf	15.pdf	27.pdf
04.pdf	16.pdf	28.pdf
05.pdf	17.pdf	29.pdf
06.pdf	18.pdf	30.pdf
07.pdf	19.pdf	31.pdf
08.pdf	20.pdf	32.pdf
09.pdf	21.pdf	33.pdf
10.pdf	22.pdf	34.pdf
11.pdf	23.pdf	
12.pdf	24.pdf	

Artworks/JPGs

ACD23-0090-001.jpg	ACD23-0090-014.jpg	ACD23-0090-025.jpg
ACD23-0090-002.jpg	ACD23-0090-015.jpg	ACD23-0090-026.jpg
ACD23-0090-003.jpg	ACD23-0090-016.jpg	ACD23-0090-027.jpg
ACD23-0090-004.jpg	ACD23-0090-017.jpg	ACD23-0090-028.jpg
ACD23-0090-005.jpg	ACD23-0090-018.jpg	ACD23-0090-029.jpg
ACD23-0090-006.jpg	ACD23-0090-018a.jpg	ACD23-0090-030.jpg
ACD23-0090-007.jpg	ACD23-0090-018b.jpg	ACD23-0090-031.jpg
ACD23-0090-008.jpg	ACD23-0090-019.jpg	ACD23-0090-032.jpg

ACD23-0090-009.jpg
ACD23-0090-010.jpg
ACD23-0090-011.jpg
ACD23-0090-012.jpg
ACD23-0090-013.jpg

ACD23-0090-020.jpg
ACD23-0090-021.jpg
ACD23-0090-022.jpg
ACD23-0090-023.jpg
ACD23-0090-024.jpg

ACD23-0090-033.jpg
ACD23-0090-034.jpg

Other

35_ICES2007Paper.pdf
36_spacesettlementcontestclock.jpg

Reports

37_Daedalus4_coveronly.pdf
38_Aresam.pdf
39_Aurora.pdf
40_Maui.pdf
41_GreenSpace.pdf
42_ArtisticRyanites_coveronly.pdf
43_ProjectDivinity.pdf
44_Anastasi.pdf
45_Cicada.pdf
46_Multi_coveronly.pdf

Container List

Date	Location	Item #	Title	Creator	Country	Additional Information	Size in Inches (w x h)	Type	Medium (all artworks are on paper)	Grade
2006	RR-I4, F1	01	Untitled	Yan Kiu Lam	Hong Kong	Artistic Merit Second Prize, 2006	15 x 11.5	Artwork	Acrylic?	Unidentified
2006	RR-I4, F1	02	Untitled	Man Shun Leung	Hong Kong	Artistic Merit First Prize, 2006	15 x 11.5	Artwork	Watercolor and crayon	3
2006	RR-I4, F1	03	Untitled	Lok Yan Chan	Hong Kong	Submitted 2006	15 x 11.5	Artwork	Watercolor and crayon	3
2006	RR-I4, F1	04	Untitled	Kenneth Chu	Hong Kong	Artistic Merit First Prize, 2006	15 x 11.5	Artwork	Watercolor and crayon	6
2006	RR-I4, F2	05	Untitled	Mayank Gupta, Team Tejas	India	Tejas won Literary Merit First Prize in 2006	14 x 11	Artwork	Crayon and glitter, laminated	Unidentified
2006	RR-I4, F2	06	Untitled	Archana Jayaraan, Team Tejas	India	Tejas won Literary Merit First Prize in 2006	14 x 11	Artwork	Crayon and glitter, laminated	Unidentified
2006	RR-I4, F2	07	Untitled	Archana Jayaraan, Team Tejas	India	Tejas won Literary Merit First Prize in 2006	11 x 14	Artwork	Crayon and glitter, laminated	Unidentified
2006	RR-I4, F2	08	Untitled	Vaibhav Gupta, Team Tejas	India	Tejas won Literary Merit First Prize in 2006	11 x 14	Artwork	Crayon and glitter, laminated	Unidentified
2006	RR-I4, F2	09	Untitled	Yukti Malik, Team Tejas	India	Tejas won Literary Merit First Prize in 2006	14 x 11	Artwork	Crayon and glitter, laminated	Unidentified
2006	RR-I4, F3	10	Untitled	Pui Shan Mak	Hong Kong	Submitted 2006	15 x 11.5	Artwork	Watercolor	6
2013	HB-FF04 D3	11	Space Settlement	Rimpa Samanta	India	Artistic Merit Second Prize, 2013	21.5 x 18	Artwork	Watercolor, crayon, metallic paint, and glitter	7 and under
2013	RR-I4, F1	12	Space - A Home for Anyone	Ana Nicoleta Ciuciu	Romania	Submitted 2013	11.5 x 16.5	Artwork	Acrylic?	5
2013	RR-I4, F3	13	Contact With Space	Lui Lai Wa	Hong Kong	Artistic Merit Honorable Mention, 2013	16.5 x 11.75	Artwork	Watercolor	7 and under
2015	HB-FF04 D3	14	New Generation in the Moon	You Jin Lee	United States	Artistic Merit First Prize, 2015	24 x 18	Artwork	Watercolor?	7 and under
2015	RR-I4, F1	15	Amazing Space Journey	Vinci Chan Wing Chi	Hong Kong	Submitted 2015	10 x 15	Artwork	Watercolor	3
2015	RR-I4, F3	16	The NASA Globe	Saddat Nazir	United States	Submitted 2015	13.75 x 11	Artwork	Marker and crayon	6

Date	Location	Item #	Title	Creator	Country	Additional Information	Size in Inches (w x h)	Type	Medium (all artworks are on paper)	Grade
2015?	RR-I4, B1	17	Pratyush	Ryan International School Student team	India	Undated submission fragment (a team named Pratyush won Artistic Merit First Prize in 2010 and Artistic Merit Honorable Mention in 2015)	17 x 12	Artwork	Watercolor and pen and ink	11-12
2015	RR-I4, B1	18-32	Viraaj portfolio of 15 artworks: 18 - Viraaj (cover page) 19 - The Moon Walk 20 - Magnum Opus 21 - The Fiery Planet 22 - Placid Space Life 23 - The Rising 24 - Future Ready 25 - The Rover 26 - Lightening [sic] Connectivity 27 - The Space Untangled 28 - The Super Age 29 - Spacing Out... 30 - Star-Telite 31 - The Shooting Star 32 - The Breakthrough	Ryan International School students: Akshita Jain, Anadika Arya, Ayushi Kapoor, Harsh Vikram Singh, Luv Aggarwal, Nikita Baldeva, Reva Bhalla, Rishika ehta, Sidhi Khemka, Somdatta Ghosh, Somya Barthwal, Vanshika Udiya, Vivek Goel, and Vrinda [last name not provided]	India	Submitted 2015	17 x 12	Artwork	Acrylic, watercolor, pastels, glitter, foil	8-10
2017	HB-FF04 D3	33	Journey to Space	Veerla Vikas	India	Tied for Artistic Merit First Prize, 2017	42.5 x 30	Artwork	Watercolor	7 and under
Undated	RR-I4, F3	34	Untitled	Unidentified. Sadat Nazir?	Unidentified	Artist, title, and date of submission is unidentified	13.75 x 11	Artwork	Marker and crayon	Unidentified
2008	Digital	35	Fifteen Years of NASA Student Space Settlement Design Contests: Some Lessons	Al Globus, Ruth Globus, Tugrul Sezen, Hami E. Teal, Wenonah Vercoutere, and Bryan Yager	United States	Technical paper 2008-01-2202 presented at the International Conference on Environmental Systems. Published June 29, 2008 by SAE International. DOI: https://doi.org/10.4271/2008-01-2202	na	Conference Paper	na	na

Date	Location	Item #	Title	Creator	Country	Additional Information	Size in Inches (w x h)	Type	Medium (all artworks are on paper)	Grade
Undated	Digital	36	Ephemera: Space Settlement Design Contest clock	Ames Research Center	United States		na	Photograph	na	na
2000	RR-H2, B2	37	DAEDALUSAL4	Mark Cummins, Lorraine Murphy, Stuart Redmond, Alison Squire and Cian Wilson from Blackrock College (a high school) and St. Joseph of Cluny School in Dublin	Ireland	Grand Prize, 2000. No digital copy of the paper report. Cover only in digital form.	na	Report	na	12
2010	RR-H2, B2	38	Foundation Society Aresam Northdonning Heedwell	Fourteen grades 9-12 students on the Durango Aerospace Design Team under the instruction of Daniel Gamer from Durango High School in Colorado	United States	Grand Prize, 2010	na	Report	na	9-12
2012	RR-H2, B2	39	Aurora Earth Orbiting Settlement	Cionca A., Dragomir C., Gheorghe A., Turcu R., and Uzum S., with their teacher Ioana S. from Tudor Vianu National High School of Computer Science in District 1	Romania	Tied for Grand Prize, 2012	na	Report	na	9-10
2013	RR-H2, B2	40	Maui	Robert Gitten, Jackie Linevsky, Zared Schwartz, Jonathan Schiller, Reagan Fugr, and Gabriel Teixeira under the instruction of Jeffrey R. of Cypress Bay High School in Weston, Florida	United States	Grand Prize, 2013	na	Report	na	9-12

Date	Location	Item #	Title	Creator	Country	Additional Information	Size in Inches (w x h)	Type	Medium (all artworks are on paper)	Grade
2014	RR-H2, B2	41	Green Space	Atanas Kovachev, Ivan Popov, and Nedelcho Laskov under the instruction of Dr. Veselka Radeva from the Astronomical Observatory and Planetarium Nikolay Kopernik and Silviya Zaharieva at the Dr. Petar Beron High School of Mathematics in Varna	Bulgaria	Tied for Grand Prize, 2014	na	Report	na	11
2015	RR-H2, B2	42	Artistic Ryanites	Ryan International School students	India	Submitted 2015. No digital copy of the paper report. Cover only in digital form.	na	Report	na	Unidentified
2016	RR-H2, B2	43	Project Divinity	SeungHyeon Do (Kongju High School, 12), JaeHun Jang (Korea Science Academy, 12), DongHyun Kim (Korea Science Academy, 12), YongSung Park (GwangJu Munsung High School, 11), HwanSung Jang (Korean Minjok Leadership Academy, 11) under the instruction of KangSan Kim, from Incheon	Republic of Korea (South Korea)	2016 Grand Prize, 2016	na	Report	na	11-12
2017	RR-H2, B2	44	Anastasi 2032	Shashwat Goel and Ankita Phulia, under the direction of Aditya Sengupta, Delhi Public School R.K. Puram in New Delhi	India	Grand Prize, 2017	na	Report	na	10

Date	Location	Item #	Title	Creator	Country	Additional Information	Size in Inches (w x h)	Type	Medium (all artworks are on paper)	Grade
2018	RR-H2, B2	45	Cicada	Mihaela Constantinescu and Bianca-Maria Cosma under the direction of Maga Cristinel C., "Ovidius" High School in Constanta	Romania	Tied for Grand Prize, 2018	na	Report	na	11
Undated	RR-H2, B2	46	MULTI: Many United Locations to Infinity	Students from Cortland Jr. Sr. High School in Courtland, New York	United States	Undated contest entry, tied for first place. No digital copy of the paper report. Cover only in digital form.	na	Report	na	8