

**\*NASA**  
(Continued from page 3.)

- “Wireless Vibration Monitors for Advanced Propulsion Systems Ground Testing,” developed by Lorand Technologies, Inc. in Orlando, Florida.
- “Hermetically Sealed Rotary Bellows for Reducing Stem Seal Leak Rates,” developed by Parabilis Space Technologies, Inc. in San Marcos, California.
- “Fiber Optic Multimodal Sensing System,” developed by RC Integrated Systems, LLC in Torrance, California.
- “Injector for LOX-GH Stable Combustion at Low Pressure and High Velocity,” developed by Rocket Propulsion Systems, LLC in Renton, Washington.

The two STTR proposals managed by Stennis Space Center are:

- “Ensuring Correct Sensor Operation and Decisions Under Harsh Environments,” developed by Alphacore, Inc. in Tempe, Arizona.
- “Enhanced Real Time Distributed Strain and Temperature Monitoring for Rocket Ground Testing,” developed by Intelligent Fiber Optics Systems Corp. in Santa Clara, California.

Proposals were selected according to their technical merit and feasibility, as well as the experience, qualifications and facilities of the submitting organization. Additional criteria included effectiveness of the work plan and commercial potential.

NASA’s SBIR and STTR programs encourage small businesses and research institutions to develop innovative ideas that meet the specific research and development needs of the federal government. The programs are intended to stimulate technological innovation in the private sector, increase the commercial application of research results, and encourage participation of socially and economically disadvantaged persons and women-owned small businesses.

The NASA SBIR and

STTR programs are conducted in three phases:

- Phase I is the opportunity to establish the scientific, technical, and commercial merit and feasibility of the proposed innovation. SBIRPhase I contracts last for six months and STTR Phase I contracts last for 13 months, both with maximum funding of \$125,000. The 363 selected proposals announced in this release are all in Phase I.
- Phase II is focused on the development, demonstration and delivery of the innovation. Phase II contracts last for 24 months with maximum funding of \$750,000. Only small businesses awarded a Phase I contract are eligible to submit a proposal for a Phase II funding agreement. The latest SBIR program Phase II selections were announced in mid-May.
- Phase III is the commercialization of innovative technologies, products, and services resulting from either a Phase I or Phase II contract. Phase III contracts are funded from sources other than the SBIR and STTR programs.

The SBIR and STTR programs are managed for STMD by NASA’s Ames Research Center in California’s Silicon Valley. STMD is responsible for developing the cross-cutting, pioneering, new technologies and capabilities needed by the agency to achieve its current and future missions.

Charged with returning astronauts to the Moon within five years, NASA’s Artemis lunar exploration plans are based on a two-phase approach: the first is focused on speed – landing astronauts on the Moon by 2024 – while the second will establish a sustained human presence on and around the Moon by 2028. We will use what we learn on the Moon to prepare to send astronauts to Mars. The technology missions on this launch will advance a variety of future exploration missions.



# It’s Going to Be Okay

Bill Tucker was sixteen years old when his dad suffered a health crisis and consequently had to leave his business. Even after Mr. Tucker regained his health, the Tucker family struggled financially, barely getting by.

Mr. Tucker, an entrepreneurial sort, came up with an idea. He won the bid to reupholster the chairs at the local movie theater. This stunned his family. He had never stitched a seat. He didn’t even own a sewing apparatus. Still, he found someone to teach him the skill and located an industrial-strength machine. The family scraped together every cent they had to buy it. They drained savings accounts and dug coins out of the sofa. Finally, they had enough.

It was a fine day when Bill

road with his dad to pick up the equipment. Bill remembers a jovial, hour-long trip discussing the bright horizons this new opportunity afforded them. They loaded the machine in the back of their truck and secured it right behind the cab. Mr. Tucker then invited his son to drive home. I’ll let Bill tell you what happened next:

“As we were driving along, we were excited, and I, like any sixteen-year-old driver, was probably not paying enough attention to my speed. Just as we were turning on the cloverleaf to get on the expressway, I will never ever, ever forget watching that sewing machine, which was already top-heavy, begin to tip. I slammed on the brakes, but it was too late. I saw it go over the side. I

jumped out and ran around the back of the truck. As I rounded the corner, I saw our hope and our dream lying on its side in pieces. And then I saw my dad just looking. All of his risk and all of his endeavor and all of his struggling and all of his dream, all of his hope to take care of his family was lying there, shattered.

“You know what comes next don’t you? ‘Stupid, punk kid driving too fast, not paying attention, ruined the family by taking away our livelihood.’ But that’s not what he said. He looked right at me. ‘Oh, Bill, I am so sorry.’ And he walked over, put his arms around me, and said, ‘Son, this is going to be okay.’

God is whispering the same to you. Those are his arms you feel. Trust him. That is his voice you hear. Believe him. Allow the only decision maker in the universe to comfort you. Life at times appears to fall to pieces, seem irreparable. But it’s going to be okay. How can

you know? Because God loved the world. If God can make a billion galaxies, can’t he make good out of our bad and sense out of our faltering lives? Of course he can. He is God.

From 3:16, *The Numbers of Hope*

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N.A.

open group meetings every Friday, 6:30-7:30 p.m. at New Roads Counseling 114½ Spring Street, Lexington 662-230-2682

28th June

ACROSS

1 Minions of “Wiltard”

5 House, in Espana

9 Seasoning measures: abbr.

13 Grub

17 “All things by \_\_\_ divine” (Shelley)

18 Baldwin of “30 Rock”

19 “Ta-\_\_\_-Boom-Deay” (Gay Nineties hit)

20 Vesuvian output

21 Sushi bar tippie

22 Square pillar

23 Murphy of “Bewitched”

24 Isfahan is here

25 Former Bond portrayer

28 Tell’s target

29 Part of Caesar’s boast

30 Held a session

31 Vacation happening

33 Leigh of “Psycho”

36 Uptown neckerchief

38 Madison Square Garden et al.

42 “Godfather” actor Vigoda

43 Dismayed cry

46 Talent

48 Mustachioed surrealist

49 Sleeveless sweater

51 Unpretentious

53 Genesis subject

55 Bewitch

57 “\_\_\_ and Sing!” (Odets drama)

60 Beauty mark

61 Netman Lendl

62 Straightaway

63 A bit too proud

65 Life, e.g.

67 Beaverish or feverish

69 Unlike “Entertainment Tonight” reports

73 Superman’s \_\_\_ of Solitude

75 Interjection for icky food

77 Arty area of NYC

78 Move very slowly

79 Parenthetical

remark

82 Bosc or Anjou

84 Place of luxury?

85 Begrudge

87 Running on \_\_\_ (almost out of gas)

89 Oracle’s reading material

91 Impudence

93 Chivalrous greeting

94 About

96 Tight with a penny

99 Make a long story short

105 Sitar virtuoso

106 Swarming

107 “Abraham, Martin and John” singer

108 College grad

109 Aloud

110 \_\_\_ effort

111 Admiral Zumwalt

112 Detail

113 Ballpoints

114 Kitty’s “back off!”

115 Doe, e.g.

116 Activist Luxemburg

DOWN

1 Coarse file

2 Jai \_\_\_

3 Filmed run-through

4 Change direction suddenly

5 Like a matador

6 Crook’s excuse

7 Crystal gazer

8 Crossword heading

9 Revolutionary battle site

10 Mystery author

11 Follow in Gutenberg’s footsteps

12 \_\_\_ Salvador

13 Angry speaker’s sounds

14 Dulcimer’s kin

15 Like an egg

16 Wax’s chum

26 “\_\_\_ of Angels” (Nicolas Cage film)

27 Fire

28 Publicize

32 Lawn tool

33 Coffee, slangily

34 Lend a hood a hand

35 Place to brood

36 \_\_\_ française

37 Pushpin’s cousin

39 Dactyl protector

40 Soothing salve ingredient

41 Transgress

44 1977 Richard Harris film

45 Problem in an antiperspirant ad

47 Chink

50 Economize

52 “M” director Fritz

54 Centrally located

56 Profess

58 Tribulation

59 Amiss

64 “Lonely Boy” singer

65 Start of Scarlett’s story

66 Curved lines

68 “Clueless” phrase

70 Rod

71 Bigger \_\_\_ a

breadbox

72 Beer ingredient

73 Pine tree

74 Sign on some diners

76 FedEx competitor

80 Oater coats

81 Send out

83 Univ. military org.

86 Tot’s afternoon inactivity

88 Worn down naturally

90 Soft yarn

92 Future history?

94 “\_\_\_ of Our Own” (1993 film)

95 Segovia, in Segovia

96 Harvest

97 Hound’s prey

98 Former Indiana Senator Bayh

100 Sci-fi transports

101 Baked clay

102 Singing voice

103 Hauls into court

104 Title role for Gwyneth

106 Cheerful word

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LINDA ROLLINS, TAX ASSESSOR

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