Curriculum Vitae

Name	Amarnath Murthy				
Organisation	Oil and Natural Gas Corporation Limited. (1984-2020) Ex. Chief General Manager (Elec & Tele)				
e-mail	amaranth.1960@gmail.com				
Professional membership: Of institutes:	 Fellow of (IETE) Institute of Electronics and Telecommunication Engineers. Member of the editorial board of "Octogon Mathematical Magazine" Romania. Member of the editorial board of "The Mathematics Education", Siwan, Bihar. Certified PMP from PMI USA Sr.PE, Engineering Council of India 				
Research papers published	168				
Open questions proposed	123				
Books authored	4 (1) Generalized Partitions and new ideas on Number Theory and Smarandache Sequences. (USA) (2) वेल लॉगिंग "अन्वेषक का मार्गदर्शक" (3) कविता संग्रह भाग 1(अभिव्यक्ति) (4) कविता संग्रह भाग 2(हास्य से गणित)				

Books edited/reviewed

2

Articles on speed maths

Online, Scribd etc.	8	
Articles in Hindi (oil sector)		51
Integer sequences published in Online Encyclopedia of Integer Sequences(OEIS).		4900
Prime curios		103

Poetry in hindi : >300 (in ONGC website and other sites).

-Guest faculty for (IMOTC-2001) International Mathematics Olympiad Training Camp held at BARC Mumbai.

*Translated and made available in **Hindi**, the website **"Online Encyclopedia of Integer Sequences"** maintained by N.J.A. Sloane njas@research.att.com of AT&T labs USA.

*Made presentations on " Mathematics of Nature" and 'Mental Mathematics' at various for a within and outside ONGC, MDI, Schools etc.

*Erdos number : 2 (co-authored papers with Professor Mihaly Bencze who has papers with Paul Erdos one of the most renowned mathematician of 20th century).

Nominated from ONGC in 2020 for the Engineering Council Of India Eminent Engineer award.

*Key Resource Person (KRP) Faculty in programs "Conceptual clarity to Teachers in High School Mathematics" organized by NCERT at MSCERT Pune in 2009. * KRP faculty in a program organized by NCERT at RIE Bhopal in June and October 2009 and in December 2014 (National Mathematics Day) for teachers of Madhya Pradesh.

***Hobbies:** Mathematics, Music, Teaching, Solving Puzzles, Reading, Poetry, Cycling, Trekking, Mountaineering, Rock Climbing, Cricket, Volleyball Chess and Social Service.

Social Welfare

- 1. Efforts to popularise Mathematics to remove the mathfobia among children and layman by conducting free classes and by way of presentations on basic mathematics in nature and mathematics education.
- 2. Classes on Mathematics Olympiad in NMO training at BARC.
- 3. Key Faculty for Teachers on Mathematics Education Training.
- 4. Promoted Rajbhasha (Hindi) by writing technical articles in Hindi.
- 5. Poetry on social/contemporary issues, Swachch Bhart Mission and evils to generate awareness and social harmony.
- 6. Organised Patriotic Events during Independence Day and Republic Day Celebrations.



Amarnath Murthy Ex.CGM(E&T),ONGC Mobile: 09969222020 email:amaranth.1960@gmail.com

Annexure

Detailed CV Supporting Documents and List of Publications

- 1. **4900** nos of integer sequences published in (online encyclopidia of integer sequences) nja sloane's data base of integer sequences. From april 2001 till date. A number of papers and 50 open questions have been published based on these sequence ideas.
- 2. **103 Prime Curios** published in the relevant site.
- **3.** Member of the editorial board of journal **"The Mathematics Education**" siwan bihar.
- **4.** Member of the editorial board of the journal "**Octogon Mathematical Magazine** "Romania.
- 5. Member of the editorial team for the book entitled "definitions, solved and unsolved problems, conjectures and theorems in number theory and geometry" authored by florentin Smarandache, edited by M. L. Perez. Published by xiquan publishing house (branch of american research press) 510 e, townley avenue, phoenix az 85020, usa . Also pear reviewer of the book "Smarandache sequences, stereograms and series by Charles Ashbacher, mount mercy college,usa.
- 6. Invited/attended the international mathematical olympiad training camp (IMOTC) held at BARC during May 2001, as guest faculty. (Indian team was ranked the 7th among 83 participating countries).
- 7. Published **113** open questions in Octogon , April 2002/ April 2003/Oct 2003.
- 8. 35 papers discussed in second international conference on Smarandache type notions in mathematics and quantum physics December 21-24, 2000, University of Craiova, Craiova, Romania.
- Translated and made available in Hindi the website "online encyclopedia of integer sequences" maintained by N.J.A. Sloane <u>njas@research.att.com</u> of At&T labs.
- 10. Attended international conference on "number theory in secure communications" held at Kumbakonam Sastra deemed univ.in Dec. 2003 graced by hon'ble dr. APJ Abdul Kalam the then president of India.
- **11.** Certified Project Management Professional from PMI USA.
- **12.** A number of training cources organized on Well Logging Technology as the chief coordinator and faculty.
- **13.** Received corporate award for maximum work done in Rajbhasha (Hindi) for three consecutive years from 2011 to 2013.
- **14.** Received 6 Merit awards for performance excellance.

Generalized Partitions and New Ideas On Number Theory and Smarandache Sequences



Smarandache Repeatable Reciprocal Partition of Unity $\{2,\,3,\,10,\,15\}$ 1/2+1/3+1/10+1/15=1

Amarnath Murthy / Charles Ashbacher

AMARNATH MURTHY S.E.(E&T) WELL LOGGING SERVICES OIL AND NATURAL GAS CORPORATION LTD CHANDKHEDA AHMEDABAD GUJARAT- 380005 INDIA CHARLES ASHBACHER MOUNT MERCY COLLEGE 1330 ELMHURST DRIVE NE CEDAR RAPIDS, IOWA 42402 USA GENERALIZED PARTITIONS AND SOME NEW IDEAS ON NUMBER THEORY AND SMARANDACHE SEQUENCES Hexis Phoenix 2005 1

FLORENTIN SMARANDACHE

DEFINITIONS, SOLVED AND UNSOLVED PROBLEMS, CONJECTURES, AND THEOREMS IN NUMBER THEORY AND GEOMETRY

edited by M. L. Perez

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XIQUAN PUBLISHING HOUSE 2000

FLORENTIN SMARANDACHE

DEFINITIONS, SOLVED AND UNSOLVED PROBLEMS, CONJECTURES, AND THEOREMS IN NUMBER THEORY AND GEOMETRY

edited by M. L. Perez

XIQUAN PUBLISHING HOUSE (branch of American Research Press) 510 E. Townley Avenue Phoenix, AZ 85020, USA 2000 FLORENTIN SMARANDACHE DEFINITIONS, SOLVED AND UNSOLVED PROBLEMS, CONJECTURES, AND THEOREMS IN NUMBER THEORY AND GEOMETRY edited by M. L. Perez

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 Sabin Tabirca, Transilvania University of Brasov, Dept. of Mathematics and Computer Sciences, Romania.
 Mihaly Bencze, 6, Harmanului Street, 2212 Sacele, Romania.
 Krassimir Atanassov, CLBME - Bulgarian Academy of Sciences, P.O.Box 12, Sofia-1113, Bulgaria

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MATHEMATICS OF NATURE AND NATURE OF MATHEMATICS

1/7/2015



ONGC

All life is biology. All biology is physiology. All physiology is chemistry. All chemistry is physics. All physics is math. Mathematics is obviously the most interesting, entertaining, fascinating, exciting, challenging, amazing, enth thrilling, absorbing, involving, fascinating, mesmerizing, satisfying, fulfilling, inspiring, mindboggling, refreshing, systematic, energiaing, satisfying, en ing, engaging, absorbing, soothing, impressive, pleasing, stimulating, engr ing, magical, musical, rhythmic, artistic, beautiful, enjoyable, scintillating, gripping, charming, recreational, elegant, unambiguous, analytical, hierarchical, pa warful ONGC rewarding, pure, impeccable, useful, optimizing, precise, objective, co stent, Infocom RO Mumbai kojical, perfect, trustworthy, eternal, universal subject in existence full of eye catching patterns. It is the science of patterns and order and the study of 09969222020 measurement, properties, and the relationships of quantities; using no 0 2 2 - 2 4 0 8 8 6 0 9 notions and notations. Nature behaves mathematically.

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Mathematics of nautre





गणित जाहिर तौर पर विश्व का सबसे रुचिकर, उत्साहवर्धक, उपयोगी, चमत्कारी, संगीतमय, चुनौतीपूर्ण, संतोषजनक, प्रेरणादायी, तर्कसंगत, प्रभावशाली, उत्तेजक एवँ सौंदर्य से परिपूर्ण विषय है. यह क्रम एवँ नियमितताओं का विज्ञान है और अंको, चिन्हों एवँ चिंतन द्वारा वस्तुओं के मापन, गुणो और उनके पारस्परिक सम्बंधों के अध्ययन का खेल है. प्रकृति स्वयँ भी इस खेल के अनुसार ही व्यवहार करना पसंद करती है.

Mathematics of nature Presentation



Natural beauties



Vol. 11, No. 1-2-3, Spring 2000 ISSN 1084-2810

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SMARANDACHE NOTIONS JOURNAL

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SMARANDACHE NOTIONS JOURNAL

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$$\begin{split} &\sum_{d^k m \leq x} x^2(m) \mu'_i d \rangle = \sum_{d \leq x^{\frac{1}{k}}} \mu(d) \sum_{m \leq x/d^k} \omega^2(m) \\ &= \sum_{d \leq x^{\frac{1}{k}}} \mu(d) \left(\frac{x}{d^k} (\ln \ln \frac{x}{d^k})^2 + O\left(\frac{x}{d^k} \ln \ln \frac{x}{d^k}\right) \right) \\ &= x \sum_{d \leq x^{\frac{1}{k}}} \frac{\mu(d)}{d^k} \left(\ln \ln x + \ln \ln \left(1 - \frac{k \ln d}{\ln x}\right) \right)^2 - O\left(x \ln \ln x\right) \\ &= x ((\ln n x)^2 \sum_{d=1}^{\infty} \frac{\mu(d)}{d^k} + O\left(x \ln \ln x \sum_{d < x^{\frac{1}{k}}} \frac{\ln d}{d^k \ln x}\right) + O(x \ln \ln x) \\ &= \frac{x (\ln \ln x)^2}{\zeta(k)} + O\left(x \ln \ln x\right). \end{split}$$

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List of Published Research Papers and Articles

- On the bandwidth of cascaded amplifiers.
 I.E.T.E. Students journal Vol. 26, no.4, October 1985. India.
- 2. On the trisection of an angle. Mathematics today ,June-1988, India.
- On the summation of a series.
 Internat. Journal of maths. In educ. Sci. And technol., 1989, Vol. 20, no. 1, u. K.
- 4. On the formula for perpendicular distance. Internat. Journal of maths. In educ. Sci. And technol., 1989, Vol. 20, no. 1, u. K.
- 5. On the infinitude of prime numbers. The Mathematics Education, Vol.xxix no. 1, march, 1995.India.
- 6. On the length of perpendicular from a point on a line in 3-d co-ordinate geometry.
 - The Mathematics Education, Vol.xxix no. 1, Sept' 1995.India.
- 7. On the Binomial theorem. The Mathematics Education, Vol.xxix no. 1, Sept' 1995.India.
- A new approach in differential calculus. The Mathematics Education, Vol.xxx no. 1, March, 1996.India.
- 9. On the arithmetic mean geometric mean inequality two short proofs. The Mathematics Education, Vol.xxxi no. 2, June, 1997.India.
- 10. Another solution to the problem from the Balkan mathematics olympiad. Mathematics and informatics quarterly, Vol. 8 no. 1 march 1998. Bulgaria.
- Several solution to a problem in geometry.
 Mathematics and informatics quarterly, Vol. 8 no. 4 December 1998. Bulgaria.
- On the co-planarity of two lines in 3D.
 The Mathematics Education, Vol . .xxxii no. 3 , sept' 1998 .India.
- 13. On the evaluation of a double integral. Applied Science Periodical, Vol. 1 number 2, may 1999, India.
- 14. On the converse of Euler's theorem on homogeneous functions. The Mathematics Education, Vol . .xxxiii no. 2 , june' 1999, India.
- 15. On the perimeter of an ellipse. Applied Science Periodical, Vol. I number 3, august' 1999, India.
- An interesting result in combinatorics.
 Mathematics And Informatics Quarterly, Vol. 9 no. 3 september 1999. Bulgaria.

List of published papers on Smarandache notions in number theory

- 17 . Smarandache reciprocal partition of unity sets and sequences.
- 18. Generalization of partition function, introducing Smarandache factor partition.
- 19. A general result on Smarandache star function.
- 20. More results and application of the generalized Smarandache star function.
- 21. Properties of Smarandache star triangle.
- 22. Smarandache factor partition of a typical canonical form.
- 23. Length / extent of Smarandache factor partition.

- 24. Some more ideas on Smarandache factor partitions.
- 25. A note on Smarandache divisor sequence.
- 26. Algorithm for listing of Smarandache factor partition.
- 27. Expansion of xⁿ in Smarandache terms of permutations.
- 28. Miscellaneous results and theorems on Smarandache terms and factor partitions.
- 29. Open problems and conjectures on the factor /reciprocal partition theory.
- 30. Smarandache reciprocal function and an elementary inequality.
- 31. Some funny examples of Smarandache lucky methods in algebra , trigonometry and calculus.
- 32. Smarandache maximum reciprocal representation function.
- 33. On the divisors of Smarandache unary sequence.
- 34. Some new Smarandache sequences functions and partitions.
- 35. Exploring some new ideas on Smarandache type sets, functions, and sequences.

Papers [17] to [35] published in Smarandache notions journal Vol. 11, no. 1-2-3 spring 2000.

- 36. On the summation of the harmonic series sigma 1/n. The Mathematics Education, Vol.xxxi no. 2, june, 1997.India.
- 37. Another combinatorial approach towards generalizing the AM GM inequality. , octogon mathematics magazine , Vol. No. 2, october 2000.
- 38. Some interesting results on d(n) the number of divisors of a natural number., octogon mathematics magazine , Vol. No. 2, october 2000.
- 39. Smarandache function of a function and other sequence.
- 40. Smarandache pascal derived sequences.
- 41. Depascalisation of Smarandache pascal derived sequences and backward extended Fibonacci sequence.
- 42. Proof of the Depascalisation theorem.
- 43. Smarandache reverse auto correlated sequences and some Fibonacci derived Smarandache sequences.
- 44. Smarandache friendly numbers and few more sequenes.
- 45. Smarandache strictly stair case sequence.
- 46. Smarandache star (Stirling) derived sequence.
- 47. Some notions on least common multiples.
- 48. Smarandache dual symmetric functions and corresponding numbers of the type of Stirling numbers of the first kind.
- 49. Decomposition of the number of divisors of a natural number into pairwise coprime sets.
- 50. Some more conjectures on primes and divisors.
- 51. Smarandache determinant sequences.
- 52. Smarandache route sequences.
- 53. Smarandache geometrical partitions and sequences.

Papers [39] to [53] published in Smarandache notions journal Vol. 12, no. 1-2-3 spring 2001.

54. Program for finding out the number of sfps.

Publicshed in Smarandache notions journal Vol 13. 2002.

Papers [17] to [54] are publicshed in Smarandache notions journal Vol. 11, Vol. 12, and Vol 13. and can be seen online in the website http://www.gallup.unm.edu/~Smarandache.

55. Some properties of the staircase sequence.

Mathematics and Informatics Quarterly 4/2001 Vol. 11., Singapore/Bulgaria.

- 56. On some interesting sets of interrelated sequences
- 57. A solution to the open question oq 339 of Mihaly Bencze.

58. On open question oq 374.

(Octogon mathematical magazine , Vol. 9 1b , April 2001.

59. Another proof of the symmetric mean inequality (a generalization of the classical am gm inequality).

(Amarnath Murthy And Mihaly Bencze)

60. Some simple proofs of the classical arithmetic mean geometric mean inequality.

(Amarnath Murthy And Mihaly Bencze)

61. Another result on divisibility.

(Amarnath Murthy And Mihaly Bencze)

62. About identities and its applications.

(Mihaly Bencze And Amarnath Murthy)

63. A note on oq 511.

(Amarnath Murthy And Mihaly Bencze)

64. A solution of the open question oq 723.

65. A solution of the open question oq 729.

Following papers published in 2003.

66. Extending the scope of some numbertheoretic functions

(Amarnath Murthy And Mihaly Bencze)

67. An interesting application of combinatorics in sex.

68. Fresh ideas on geometric construction using compass and straight edge.

69. Some interesting chess board problems.

70. Program for finding out number of Smarandache distinct reciprocal partition of unity of a given length

71. A conjecture on d(n) the divisor function itself as a divisor with required justification.

72. The sum of the reciprocals of the Smarandache multiplicative sequence

73. On the largest balu number and some sfp equations.

74. Pouring few more drops in the Ocean of Smarandache sequences and conjectures.

- 75. A note on maohua le's proof of Murthy's conjecture on reciprocal partition theory.
- 76. On the infinitude of Smarandache additive square sequence
- 77. On the infinitude of Smarandache multiplicative square sequence
- 78. Another classification of the Ocean of Smarandache sequences

20

79 Smarandache pythogorous additive square sequence

80. Infinitely many common members of Smarandache multiplicative square sequence and Smarandache additive square sequence

81. Smarandache patterned perfect cube sequences.

82. Smarandache additive cubic sequence is infinite.

83. Fabricating perfect squares with a given valid digits sum.

84. Fabricating perfect cubes with a given valid digits sum.

85. Smarandache perfect powers with given valid digit sum.

86. Smarandache Murthy 's figures of periodic symmetry of rotation specific to an angle.

87. Some more examples and results on the infinitude of certain Smarandache sequences.

88. Smarandache symmetric (palindromic) perfect power sequences.

89. The largest and the smallest mth power whose digits sum /product is it's mth root.

90. Some propositions on Smarandache n2n sequence.

91. Smarandache fermat additive cubic sequence.

92. Smarandache fitorial and suplimentry fitorial fuctions.

93. A note on the conjecture that Smarandache nn² sequence contains no perfect squares.

94. A note on the Smarandache nn^m generalized sequence.

95. Some ideas on the Smarandache nkn sequence.

96. An application of Smarandache LCM sequence and the largest number divisible by

all the integers not exceeding the rth root of itself.

97. Smarandache Murthy lagrange type problems.

98. A note on the number of primes in Smarandache multiple sequence.

99. Some ideas on the Smarandache square and higher power bases.

100. Smarandache forth and higher patterned/additive perfect power sequences.

101. Numbers which are a multiple of the product of their digits and some more ideas.

102. Smarandache multiplicative cubic sequence and more ideas on digit sums.

103. Smarandache prime generator sequence.

104 on oq 1180.

105. On oq 1181.

106. On oq 1182.

107. Solutions of JOSEF WILDT International mathematical competition 2003.

108. On the number of roots of some transcendental equations.

109. Some new properties of a triangle.

Following papers published in 2004.

110. Virtual reality "Boon or a future nightmare".

111. About second degree equations.

(Mihaly Bencze And Amarnath Murthy)

112. Some more proofs to taichi miakava's problem.

113. A proof of the Sangaku theorem.

114. On the number of distinct nontrivial sets of numbers with a given least common multiple.

115. A note on a sequence of primes with every partial sum a k'th power.

(Amarnath Murthy And Mihaly Bencze)

116. Some fascinating variations in harmonic series

(Jason Earls And Amarnath Murthy)

117. New inequalities for a category of means.

(Mihaly Bencze And Amarnath Murthy)

118. Mathematics of nature and nature of mathematics.

Voice of research. Vol. 2 issue 1. June 2013. Issn no. 2277-7733

119. Where intuition eludes.

International Journal of Advanced Research, IJOAR.org, Volume 1 Issue 10 Oct 2013

Published in ONGC internal website

120.The role of E & T engineers in the in-house maintenance of well logging equipment.

- 121. कूप संलेखन 'एक परिचय'
- 122. वेल लॉगिंग उपकरणो का रखरखाव
- 123. जीवाश्म ईंधन एवं पर्यावरण पर इसके दुश्प्रभाव
- 124. वेल लॉगिंग के क्षेत्र मे जोखिम एवं सम्बंधित सुरक्षा
- 125. तेल की खोज मे वेल लॉगिंग की भूमिका
- 126. जीवाश्म ईंधन का इतिहास एवं भविष्य
- 127. तेल के क्षेत्र मे कुछ दिलचस्प घटनाएं
- 128. वेधन के दौरान संलेखन
- 129. 'अक्षय उर्जा' एकमात्र विकल्प "एक समीक्षा"
- 130. उड़ान ओएनजीसी की ' धरती से आकाश की उंचाईयों तक'
- 131. गैस हाइड्रेट्स ' भावी उर्जा सक्षमता का आधार'
- 132. मॉड्य्लर फारमेशन डॉयनामिक टेस्टर
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Smarandache	notions	in number	theory and	combinatorics (Smarandache factor
partition	,		,functions	and	sequences)
presented					by
Amarnath					Murthy
ONGC, India					

Smarandache notions in number theory and combinatorics (Smarandache factor partition, functions and sequences) Amarnath Murthy,s.e. (e&t), well logging services, oil & natural gas corporation ltd. Chandkheda, ahmedabad, India- 380005. Amarnath_Murthy@yahoo.com resume: an electronics engineer inVolved in oil exploration business in a leading public sector oil and natual gas producing company. Key words: Smarandache factor partition, reciprocal partition of unity, star function, star triangle, length and extent of a partition. Abstract it is proposed to include 35 papers on Smarandache notions in number theory in this conference.

In paper [1] expression of unity as the sum of the reciprocal of natural numbers is explored and in this connection Smarandache reciprocal partition of unity sets and sequences are defined. Some results and inequalities are derived and a few open problems are proposed. This also leads to the generalisation of the additive partition function defined as Smarandache factor paritions (sfp).

In papers [2] to [10] a number of results having beautiful patterns have been derived combinatorially on the sfps of square free numbers. A very useful idea of 'star function' has been developed. Papers [11] to [13] deal with miscellaneous ideas related to the sfps. In paper [14] 'Smarandache reciprocal function' has been defined and an inequality on Smarandache function is derived. In paper [15] some examples on 'Smarandache lucky methods' in algebra , trigonometry and calculus are given. In paper [16] Smarandache maximum reciprocal representation function is dealt with. In papers [17] to [30] a large number of Smarandache sequences have been defined , explored and developed. In paper [31] some new ideas on 'least common multiples' are floated. In paper [32] Smarandache dual-symmetric function has been defined.some open problems in relation to the stirling numbers are formulated. In paper [33] decomposition of the divisors of a natural number into pairwise co-prime sets is analysed. In paper [34] some new conjectures and open problem on primes and divisors are given. In paper [35] the star function is applied to the divisor function. References:

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Ever wonder how many of the 5392 prime curios! Each of the 628 submitters contributed? We can answer that! But how do we count? We decided that if a team of three folks together submit a curio, each should get one-third credit. This leads to the numbers below:

The	The top ranked curio submitters						
Rank	Numbe	r Who	Total				
1	386.50	<u>gupta</u> (<u>shyam sunder gupta</u>)	387				
2	327.00	<u>patterson</u>	328				
3	209.50	<u>de geest</u> (<u>patrick de geest</u>)	214				
4	158.50	<u>dobb</u> (<u>henry dobb</u>)	159				
5	147.00	<u>hartley</u> (michael hartley)	147				
6	146.50	<u>luhn</u> (<u>norman luhn</u>)	147				
7	135.00	<u>rupinski</u> (andrew rupinski)	135				
8	134.00	<u>russo</u> (felice russo)	135				
9	119.00	<u>opao</u>	119				
10	117.00	<u>kulsha</u> (andrey kulsha)	121				
11	108.50	<u>honaker</u> (<u>g. L. Honaker, jr.</u>)	112				
12	<mark>103</mark>	<mark>Murthy (<u>Amarnath Murthy</u>)</mark>	103				
13	80.00	<u>trotter</u> (terry trotter)	86				
14	77.33	<u>rivera</u> (<u>carlos rivera</u>)	83				
15	76.00	<u>necula</u>	76				
16	64.00	<u>gallardo</u>	64				
17	62.00	<u>blanchette</u> (gilles blanchette)	62				
18	55.00	poo sung	55				

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- Amarnath Murthy (Hindi),
- o Heikki ruskeepää (finnish), Hugo tullberg (swedish),
- Vinay vaishampayan (hindi);
- Of course any errors that remain are my own responsibility. If you see any mistakes please let me know <u>njas@research.att.com</u>.
- There is also an older translation into <u>french</u>, but i have not kept it up-to-date. It is difficult enough to maintain pages in one language!

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