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National Armaments Consortium (NAC) Executive Committee Member Application Form 2026
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CANDIDATE INFORMATION

Name	Paritosh Dave
Title	Sr. Director
Organization	Leidos
Organization Type	Large Business
Address	
Email	
Phone	

CANDIDATE STATEMENTS

Explain how your background, training, experience and/or personal qualities support your candidacy to assume a governance position on the Executive Committee. Provide resume as a separate attachment.

I am a Senior Director and a Senior Program Manager for Defense RDT&E within the Defense Group at Leidos. I have almost 38 years' experience executing and managing R&D programs related to the life cycle of energetic materials and munitions. My association with the Defense Ordnance Technology Consortium goes back to its inception and I have had the privilege to serve on the NVEC and NAC Executive Committees from 2009 - 2019. I then served as an ex-officio member of the ExCom from 2020 to 2023, and as the chair of the newly formed NAC Governance and Nomination Committee (GNC) 2015 - 2018. I was reelected to the ExCom in 2023 I have witnessed the growth of this consortium which started as a partnership between Picatinny and ARL to a multi-service organization with over 1260 industry (large and small businesses) and academia members today.

I have led and/or participated in NAC initiatives over my terms on the NAC executive committee: served as the co-chair of the Explosives Subcommittee; led a task force to evaluate the effectiveness of the Research Subcommittee construct and develop process improvements as well as propose alternate models in improving effectiveness in meeting their objectives. As a result, poster sessions to enhance collaborations across members and with the government became a regular feature at the NAC General membership Meetings. As the chair of the GNC (2015 -2018) I worked with fellow members to standardize the election process as well as write standard operating procedures for smooth operation of the Executive Committee and NAC.

I have served on the Critical Energetics Materials Working Group (CEMWG) as a NAC representative since 2016 working on addressing supply chain issues for critical chemicals. The nation's reliance on foreign sources for critical chemicals used by the DoD is the most significant risk to the energetics enterprise. I helped organize the first Critical Chemicals Collaboration Colloquium (C4) for the Office of the Assistant Secretary of Defense for Industrial Base Policy in November 2022, bringing together members from multiple industries (such as pharma, food, cosmetics) for panel discussions on Circular Economy, Advanced Manufacturing Technologies, Onshoring, and Workforce Development. Following its success, I helped plan the next C4 event focused on Advanced Manufacturing Tools & Techniques November 2023.

I was invited to become a member of the Energetic Materials Technology Working Group (EMTWG) Committee in 2023. The EMTWG Committee is responsible for planning the EMTWG meeting (previously known as the Insensitive Munitions and Energetic Materials Technology Symposium) every 18 months to include tasks such as topic areas, paper selections, meeting locations and dates, etc. I have been passionate about the NAC

hosting national level annual energetic materials and munitions conferences (US only/Classified for meaningful collaboration) and make them the national premiere event for the energetics community going forward. After NAC taking over the meeting I have supported EMTWG in organizing two international and one US only classified event.

I bring long-term historical knowledge and experience as a member of the NAC ExCom actively supporting various initiatives and addressing organizational and operation issues within the NAC and the various consortia supported by NAC. I plan to leverage this experience to guide newer members to come up to speed and continue supporting and advancing NAC ideals of advancing armaments research through collaboration.

Supporting Attachment(s)

What do you see as the most significant challenge(s) facing the business type you will represent and how would you propose to address those challenges if elected?

The proliferation of OTA's has increased competition for NAC and the chronic delays in DOTC awards has led to the gold standard losing some of its luster.

The most significant challenge facing large businesses remains the increased delay in award of DOTC and AMTC initiatives in recent years. While multiple factors have contributed to this, I intend to continue working with the executive committee and government representatives to find ways to streamline processes, better define requirements and provide more training to members to be able to succeed in getting initiative awarded in a reasonable time frame. The approach I favor is to identify relevant metrics that measure success, come to an agreement with the government counterparts on what they should be, set up tracking to identify specific areas of improvement, and work out improved procedures to address them.

As a large business member, I have actively sought out and worked with small businesses and academic institutions over the years to successfully develop joint opportunities and plan to continue expanding such collaborative activities in the future. The hallmark of NAC is collaboration, and it is the large business' responsibility to encourage and facilitate small businesses and academic institutions participation in joint initiatives. A further challenge for small businesses is the CMMC requirement planned to be implemented later in 2026 and ATI and NAC should actively provide guidance and support to small businesses gain certification, so they are not locked out of contracts.

Please describe the importance of the NAC to your organization and provide a synopsis of the participation in NAC/DOTC since becoming a member (e.g., number of proposal submissions, awards, industry days and membership meeting attended).

The NAC is extremely critical to Leidos not only as a viable contract option to execute prototyping projects but also as a collaboration tool to identify synergies with other NAC members. I have been attending NAC meetings ever since the consortium was formed, have participated in research subcommittees as well as served on the executive committee since 2009. I have attended all general membership meetings and almost all quarterly Executive Committee meetings. I represent the NAC on the CEMWG, NEST, and have recently joined the EMTWG. Leidos has proposed and been awarded over 54 projects worth over \$780M in the last 10 years.

I strongly believe NAC is without peer in its capabilities and collaboration opportunities and I am seeking to continue to work to ensure it delivers to its maximum potential for its members and customers. The DoD is facing an unprecedented challenge to onshore critical chemicals manufacturing to reduce its reliance on foreign nations for key ingredients needed for munitions and missiles and the 1260 plus member strong NAC has a key role to play in addressing this issue with thought leadership, collaboration, and innovation. My vision for the NAC is to work with the Executive Committee and the members to continue enhancing its value proposition through collaboration. Helping organize the EMTWG meetings (international and US only) and working with the Services and the Industrial Base Policy office are all parts of the equation to solidify NAC as the Nation's Premier Armaments Consortium.

WILLINGNESS TO SERVE CERTIFICATION

Signature

A handwritten signature in black ink, appearing to be 'John', written over a horizontal line.

Date

06/04/2026

PARITOSH DAVE
Sr. Program Manager, Leidos

PROFESSIONAL PROFILE

Results oriented program manager with over 38 years' experience executing and managing DoD RDT&E contracts and programs spanning the entire life cycle of energetic materials. Proven record of energetic materials innovation with 49 publications and 26 issued patents related to energetic materials R&D. Demonstrated management, leadership, strategic planning and execution, business development and proposal management skills.

EDUCATION

Ph.D. In Organic Chemistry, City University of New York, New York

PROFESSIONAL EXPERIENCE

Leidos/Science Applications International Corporation (SAIC): Sept 2005 - present

Sr. Director for Energetics and Sr. Program Manager for Energetic Materials Research, Development, Test and Evaluation (RDT&E) within the Defense Sector of Leidos. Responsible for contract execution, strategic planning, program management, business development and capture, risk management and compliance, resource allocation and monitoring, and management of personnel at Picatinny Arsenal and other Leidos locations. Managed multiple DOTC Initiatives as well as FAR based individual Task Orders valued from \$5M to \$273M. Developed and execution of Leidos strategy for critical chemicals to help build robust industrial base supply chain for reduced reliance of foreign countries.

GEO-CENTERS, INC: January 1989 – August 2005

Responsible for the execution and management of programs spanning the entire lifecycle of energetic materials to include design, computation, synthesis, scale-up, process development and optimization, and testing of energetic materials and derived formulations, as well as identification and demonstration of technologies in support of demilitarization. Promoted to operations manager responsible for the management and oversight of all operations at Picatinny Arsenal.

University of North Texas, Denton, TX: February 1986 – December 1988

As a visiting research assistant professor conducted DOD funded research on the synthesis of novel polynitropolycyclic cage molecules as candidates for new energetic materials.

RESEARCH AND DEVELOPMENT EXPERIENCE

Over 37 years' experience in design, synthesis, scaleup, process development, analysis, and evaluation of energetic materials for extended range and enhanced lethality munitions as well as their precursors. Developed scaled up processes of energetic materials for transition to manufacture. Current focus is on the development of scalable methods for the manufacture of critical chemicals for onshoring of their production to address industrial base supply chain issues leading projects to develop methods for CL-20, HMX, RDX, and BDNPA/F.

Developed multi-step syntheses of highly functionalized cyclic and polycyclic molecules, scale-up and transition of laboratory discovery routes to multi-kilogram and pilot scale processes with emphasis on environmentally benign processes, design and synthesis of novel polyfunctional units useful for the synthesis of dendrimers, development of environmentally benign alternate processes and scale-up studies on new and existing materials.

Key accomplishments include:

- Developed high-yield nitration to produce CL-20 and currently researching alternate processes for the preparation of CL-20 and its precursors to develop high yield process for domestic production.
- Developed alternate synthetic approach to 1,3,3-trinitroazetidine, TNAZ, a new melt-castable energetic material.
- Developed a novel semi-continuous process for the manufacture of 2,2-dinitropropanol (a key precursor to bis-Dinitropropyl Acetal/Formal, BDNPA/F, an energetic plasticizer). The process was transitioned to Northrup Grumman for further optimization. The developed process offers a scalable route to establish domestic production of BDNPA/F.
- Demonstrated an improved process for the preparation of bis-dinitropropyl nitramine, BDNPN, a novel highly insensitive propellant ingredient.
- Designed and developed the first synthesis of tri-, tetra, and hexanitroadamantane, the most highly nitrated adamantane known to date.
- Developed the first syntheses of tetra- and hexanitropentacycloundecanes representing the most highly nitrated pentacycloundecane synthesized to date.
- Developed the first synthesis of 7-aryloxynorbornadienes through the application of the Mitsunobu reaction and demonstrated its iron carbonyl promoted dimerization and coupling reactions to produce novel polycyclic molecules.
- Developed a novel acylative dealkylation reaction leading to the facile synthesis of stable azetidines, a process subsequently applied by various researchers in the preparation of biologically active azetidine based molecules.
- Synthesis of novel polyazido compounds useful as potential ingredients in lead free primary compositions and useful ingredients in demonstration of an alternating curing process when combined with diacetylenic compounds.
- Synthesis of novel energetic spiro substituted cyclotriphosphazenes as a new class of energetic materials.
- Synthesis of nitrogen containing cyclic and polycyclic compounds, e.g. azabicyclobutane, azetidines, 1,5-diazacyclooctanes, 3,7-diazabicyclo[3.3.0]octanes, diazatricyclooctanes, 3,7,10-triheterocyclic[3.3.3]-propellanes, hexahydropyrimidines and triazacyclododecanes.

PROFESSIONAL AFFILIATIONS

- NAC representative to Critical Energetic Materials Working Group (CEMWG) (2016 – Present)
- Member, Energetic Materials Technical Working Group (June 2023 – Present)
- Member of the Critical Chemicals Collaboration Colloquium (C4) organization panel – Responsible for topic selection, event planning, constituting and leading expert panels on critical chemicals and advanced manufacturing tools and techniques in support of OSD's Industrial Base initiative to address critical chemicals supply chain issues.
- Member, National Armaments Consortium (NAC) Executive Committee (2009 – 2020 and 2023-current, 2020 – 2023 ad hoc member)
- Chairman, Governance and Nomination Committee of NAC (2015 – 2018)

PUBLICATIONS

1. "An Improved Direct Oxidation of Alkyl Halides to Aldehydes." Dave, P.R.; Byun, H.S.; Engel, R. *Syn. Com.* 1343, 1986.
2. "3-(p-Cyanophenoxy)quadricyclane and a Redetermination of the Structure of a Hexachloroquadricyclane Dicarboxylate." Watson, W.H.; Tavanaiepour, I.; Marchand, A.P.; Dave, P.R. *Acta. Cryst.* C43, 1356, 1987.
3. "Structure of a Novel C₁₁H₁₂N₂O₃ Cage Molecule." Watson, W.H.; Marchand, A.P.; Dave, P.R. *Acta. Cryst.* C43, 1569, 1987.
4. "Synthesis of 8,8,11,11-Tetranitropentacyclo-[5.4.0.02,6.03,10.05,9]undecane." Marchand, A.P.; Arney, B.E., Jr.; Dave, P.R. *J. Org. Chem.* 53, 443, 1988.
5. "Reductive Amination of Pentacyclo-[5.4.0.02,6.03,10.05,9]undecane-8,11-dione." Marchand, A.P.; Dave, P.R.; Satyanarayana, N.; Arney, B.E., Jr. *J. Org. Chem.* 53, 1088, 1988.
6. "Transannular Cyclizations in the Pentacyclo[5.4.0.02,6.03,10.05,9]undecane-8,11-dione system. A Reinvestigation." Marchand, A.P.; Arney, B.E., Jr.; Dave, P.R.; Satyanarayana, N. *J. Org. Chem.* 53, 2644, 1988.
7. "A Dimer Ketone Formed via Fe(CO)₅-Promoted Coupling of 7-Phenoxynorbornadiene to Carbon Monoxide." Watson, W.H.; Marchand, A.P.; Dave, P.R. *Acta. Cryst.* C44, 940, 1988.
8. "Synthesis of 4,4,8,8,11,11-Hexanitropentacyclo[5.4.0.02,6.03,10.05,9]undecane." Marchand, A.P.; Dave, P.R.; Rajapaksa, D.; Arney, B.E., Jr.; Flippen-Anderson, J.L.; Gilardi, R.; George, C. *J. Org. Chem.* 54, 1769, 1989.
9. "Synthesis and Iron Carbonyl Promoted Coupling Reactions of 7-(Aryloxy)norbornadienes." Marchand, A.P.; Dave, P.R. *J. Org. Chem.* 54, 2775, 1989.
10. "The Structures of Three Strained Cage Molecules." Watson, W.H.; Nagl, A.; Marchand, A.P.; Reddy, G.M.; Reddy, P.S.; Dave, P.R. *Acta Cryst.* C45, 263, 1989.
11. "Structure of a Cage Dimer (I) and a Dimer Ketone (II) Formed via Thermal Reaction of Ethyl 3-Phenyl-2-norbornadienecarboxylate with Pentacarbonyliron." Flippen-Anderson, J.L.; Gilardi, R.; George, C.; Marchand, A.P.; Dave, P.R. *Acta. Cryst.* C45 1171, 1989.
12. "Two Iron(0) Tricarbonyl Complexes with Substituted Norbornadienes." Watson, W.H.; Nagl, A.; Kashyap, R.P.; Marchand, A.P.; Dave, P.R. *Acta. Cryst.* C46, 24, 1990.
13. "Structure of a Dimer Ketone formed via Fe(CO)₅-Promoted Coupling of 7-(p-Cyanophenoxy)norbornadiene to Carbon Monoxide." Flippen-Anderson, J.L.; Gilardi, R.; George, C.; Marchand, A.P.; Dave, P.R. *Acta. Cryst.* C46, 807, 1990.
14. "Synthesis of 2,2,4,4-Tetranitroadamantane." Dave, P.R.; Ferraro, M.; Ammon, H.L.; Choi, C.S. *J. Org. Chem.* 55, 4459, 1990.
15. "Novel Reaction of Amidocubanes with Thionyl chloride; Secocubanes." Bashir-Hashemi, A.; Dave, P.R.; Ammon, H.L.; Axenrod, T. *Tetrahedron Letters* 31, 4835, 1990.
16. "Structures of Two Hydrated Cage Diketones." Watson, W.H.; Nagl, A.; Kashyap, R.P.; Marchand, A.P.; Lu, S.; Dave, P.R.; Annapurna, P. *Acta Cryst.* C46, 1875, 1990.

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18. "The Complete ^1H and ^{13}C Assignment of Some Cubane Derivatives by 2D NMR Spectroscopy." Axenrod, T.; Liang, A.; Bashir-Hashemi, A.; Dave, P.R.; Reddy, D.S. *Magnetic Resonance in Chemistry* 29, 88, 1991.
19. "Synthesis and Flash Vacuum Pyrolysis of Dimethyl anti-7-nitro-2,5-norbornadiene-2,3-dicarboxylate." Marchand, A.P.; Reddy, P.S.; Dave, P.R. *Synthesis* 565, 1991.
20. "One-Bond ^{13}C - ^{13}C Spin-Spin Coupling in Cubanes." Axenrod, T.; Liang, B.; Bashir-Hashemi, A.; Dave, P.R. *Mag. Resonance in Chem.* 29, 1161, 1991.
21. "Five 8,11-Substituted Pentacyclo[5.4.0.0.2,6.0.3,10.0.5,9]undecanes." Flippen-Anderson, George, C.; Gilardi, R.; Zajac, W.W., Jr.; Marchand, A.P.; Dave, P.R.; Arney, B.E., Jr. *Acta. Cryst.* C47, 813, 1991.
22. "Synthesis and Structures of a New Class of Calixarene Analogs Derived from 5-*t*-Butyltetrahydro-1,3,5-triazine-2(1H)one." Dave, P.R.; Doyle, G.R.; Axenrod, T.; Yazdekhashti, H.; Ammon, H.L. *Tet. Letters*, 1021, 1992.
23. "The Synthesis and Complete ^1H and ^{13}C NMR Spectral Assignment of 2,2,4,4,6,6-Hexanitroadamantane and its Precursor Nitroketones by 2D NMR Spectroscopy." Dave, P.R.; Bracuti, A.; Axenrod, T.; Liang, B. *Tetrahedron* 48, 5839, 1992.
24. "Synthesis of 1,3,3-Trinitroazetidine." Axenrod, T.; Watnick, C.; Yazdekhashti, H.; Dave, P.R. *Tet. Letters*, 34, 6677, 1993.
25. "Novel Spiro-Substituted Cyclotriphosphazenes Incorporating Ethylenedinitramine Units." Dave, P.R.; Forohar, F.; Axenrod, T.; Bedford, C.D.; Gilardi, R. *Phosphorus, Sulfur and Silicon* 90, 175, 1994.
26. "1,5-Diazacyclooctane-3,7-Derivatives as Precursors of the 3,7-Diaza[3.3.0]bicyclooctane and 3,7,10-Heterocyclic[3.3.3]propellane Ring Systems." Dave, P.R.; Forohar, F.; Axenrod, T.; Qi, L.; Watnick, C.; Yazdekhashti, H. *Tet. Letters* 35, 8965, 1994.
27. "Synthesis of Ethylenedinitramine Derivatives of Fluorocyclotriphosphazenes." Forohar, F.; Dave, P.R.; Axenrod, T.; Bedford, C.; Gilardi, R.; George, C. *Phosphorus, Sulfur and Silicon* 101, 161, 1995.
28. "Synthesis of 1,3,3-Trinitroadamantane." Dave, P.R.; Axenrod, T.; Qi, T.; Bracuti, A. *J. Org. Chem.* 60, 1895, 1995.
29. "Synthesis of 1,3,3-Trinitroazetidine via the Oxidative Nitrolysis of N-*p*-Tosyl-3-Azetidinone Oxime." Axenrod, T.; Watnick, C.; Yazdekhashti, H.; Dave, P.R. *J. Org. Chem.* 60, 1959, 1995.
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32. "Facile Preparation of 3,7-Diazabicyclo[3.3.0]octane and 3,7,10-Triheterocyclic [3.3.3]Propellane Ring Systems from 1,5-Diazabicyclooctane 3,7-Derivatives." Dave, P.R.; Forohar, F.; Axenrod, T.; Das, K.K.; Qi, L.; Watnick, C.; Yazdekhashti, H. *J. Org. Chem.* 61, 8897, 1996.
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38. "Synthesis of Molecular Clefts Derived from Glycoluril." Dave, P.R.; Forohar, F.; Kaselj, M.; Gilardi, R.; Trivedi, N. *Tet. Letters* 40, 447, 1999.
39. "Synthesis and Characterization of 5-Substituted 1,3-Diazacyclohexane Derivatives." Axenrod, T.A.; Sun, J.; Das, K.K.; Dave, P.R.; Forohar, F.; Kaselj, M.; Trivedi, N.J.; Gilardi, R.; Flippen-Anderson, J.L. *J. Org. Chem.* 65, 1200, 2000.
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41. "Structures of Dinitroazetidine and three of its Carbonyl Derivatives." Peiris, S.M.; Gilardi, R.; Dave, P.R.; Russell, T.P. *J. Chem. Cryst.* 30, 647, 2000.
42. "1,4,8,11-Tetrabenzyl-6,13-dimethylene-1,4,8,11-tetraazacyclotetradecane-2,3,9,10-tetraone." Gilardi, R.; Evans, R.N.; Dave, P.R. *Acta Cryst.* E59, o1126, 2003.
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44. "Preparation of "Cage Molecule" based polyazido core units for dendrimer synthesis." Dave, P.R.; Yang, K.; Duddu, R.; Damavarapu, R.; Gelber, N.; Surapaneni, R.; Gilardi, R. *Tet. Letters* 45, 2159, 2004.
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46. "Synthesis of Nitropyrazolidines" Damavarapu, R.; Surapaneni, R.; Duddu, R.; Forohar, F.; Dave, P.; Parrish, D. *J. Het. Chem.* 44, 241, 2007.
47. "Synthesis of Azido Heterocycles" Duddu, R.; Dave, P.R.; Damavarapu, R.; Surapaneni, R.; Gilardi, R.; Parrish, D.; *Syn. Comm.* 38, 767, 2008.
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PATENTS:

- 1 8,492,541 "Synthesis of azido heterocycles"
- 2 8,466,317 "Preparation of insensitive bis(2,2,-dinitropropyl) nitramine (BDNPN)"
- 3 8,153,786 "Synthesis of azido heterocycles"

4 8,133,993 "Hydrogenolytic denitration of polynitro compounds:
pentanitrohexaazaisowurtzitane"

5 7,981,225 "Lead free detonator and composition."

6 7,304,164 "Melt-cast explosive material"

7 7,109,359 "Polyazido compounds"

8 6,998,485 "Polyazido compounds"

9 6,965,042 "Polyazido compounds"

10 6,841,690 "Polyazido compounds"

11 6,417,373 "Preparations of azabicylobutane, precursors, and related compositions"

12 6,232,479 "Substituted cyclotetraphosphazene compound and method of producing the same"

13 6,218,554 "Substituted cyclotetraphosphazene compound and method of producing the same"

14 6,160,113 "Process and compositions for nitration of n-nitric acid at elevated temperatures to
form HNIW and recovery of gamma HNIW with high yields and purities and crystallizations to
recover epsilon HNIW crystals"

15 6,121,462 "Substitutions on azetidines by acylative deallylation with lewis acid catalysis"

16 6,015,898 "Processes and compositions for nitration of N-substituted isowurtzitane compounds
with concentrated nitric acid at elevated temperatures to form HNIW and recovery of gamma
HNIW with high yields and purities"

17 5,831,099 "Compounds of 1,5-disubstituted-3,7 diaza bicyclo [3.3.0] octanes and products
containing the same"

18 5,824,807 "Preparations of azabicylobutane precursors and related compositions"

19 5,824,806 "Processes for preparing TNAZ"

20 5,808,099 "ADNAZ, compositions and processes"

21 5,580,988 "Substituted azetidines and processes of using them"

22 5,476,951 "Synthesis of trinitroazetidine compounds"

23 5,352,829 "Spiro(N,N'-dinitroethylenediamino)cyclotriphosphazenes"

24 5,292,959 "4,4-dinitroadamantane-2,6-dione"

25 5,202,508 "Composition"

26 5,180,853 "4,4-6,6-tetranitroadamantan-2-one"