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Rev. 2: Oct 10, 2007

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AAT A TCTATAAGA CTCTAACT 米国動向報告:

CTCGCC AATTAATA

The National Academiesの概要

AAT A TUTATAAGA CTUTAACT (ナショナルアカデミーズ)

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Center for Research and Development Strategy – Japan Science and Technology Agency

独立行政法人 科学技術振興機構 研究開発戦略センター・

海外動向グループ

主なミッション

LC AAAA GGCCI

CTCGCC AATTAATA

■ 報告書・会議記録・白書を発行するとともに、シンポジウムや専門委員会を開催し、 研究者コミュニティーを形成する

~各機関のミッション~

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(NRC) ATA

A TITATAAGA ITITAAIT

■ NAS・NAE・IOMの主要管理機関として機能すると同時に、科学者・技術者・教育者の活動状況をより良くし、幼稚園から大学院にわたる科学・数学教育の質を向上させる

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[NAS-NAE-IOM]

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■ 科学・工学・医学の分野における国家に影響を与える問題を科学的に特定、 解決し、アドバイスをすることにより国民の生活向上に貢献する 110 000

.

<u>歴史</u>

LC AAAA GGCCI

1863.3 南北戦争中、リンカーン大統領によって、国家への科学・技術的なアドバイスの 提供を目的とした The National Academy of Science (全米科学アカデミー) 設立

業務範囲を政府全体へ徐々に拡大

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1916 ウィルソン大統領の要望で幅広い科学技術分野からメンバーを募集するべく、 the National Research Council (全米研究会議)を設立し、人員を増強

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1964 the National Academy of Engineering (全米工学アカデミー)設立

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1970) the Institute of Medicine (医薬機構)設立

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報告書•取組内容

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■ 年間、200-300の報告書が発表され、全ての著作権は、ナショナルアカデミーズが 所有する

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■ その他、

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・国土安全保障 ATTAATC A AAGA (例:商業用核燃料プラントにおける使用済み燃料の安全性)

・肥満の蔓延(例:食品販売活動と子供の食事習慣の関係)

•代替燃料 (例:水素燃料)

・宇宙探査の将来ビジョン TTAAT[A AAGA [[TAA[T [TC]]]] - (例;宇宙探査に関するNASAの次なるステップ)

・法廷での科学捜査の利用

•外来植物

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ATC •気候変動〔〔

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等に関する報告書が提出され、その多くが政策決定に影響を与えている

・ 近年最も注目されているトピックスの一つに「エネルギー保障」がある

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報告書•取組内容

~各機関の研究(調査)内容~

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[NAS]

- ② 生物科学・・・ 生物化学; 細胞・発生生物学; 生理学と薬理学; 細胞・分子神経科学 等
- ③ 工学と応用科学・・・・ エンジニアリング科学: 応用数理科学 : 応用物理科学: △コンピューダ・情報科学
- ④ 生体医科学・・・ 遺伝医学・血液学・腫瘍学: 医学生理学と代謝: 免疫学: 細菌生態学
- ⑤ 行動・社会科学 ・・・ 人類学: 心理学: 社会・政治学: 経済学
- ⑥ 応用生物・農業・環境科学・・・ 動物・栄養・応用細菌科学; 植物・土壌・細菌科学; 環境科学と生態系 等

[NAE]

- ① 教育•技術的手法•労働人口
- ② 工学と環境
- ③ 工学·経済·社会
- 4 情報工学と社会
- ⑤ 国家安全と犯罪防止
- ⑥ 公共政策とプログラム審査

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- ① 老化 ② 小児保健 ③ 病気 ④ 教育 ⑤ 環境 ⑥ 食物と栄養 ⑦ 国際保健
- ⑧ 健康科学 9 医療とその質 ⑩ 心の健康 ⑪ 軍隊と退役軍人 ⑫ 少数民族の健康 0000
- ③ 公衆衛生と予防 ④ 公共政策 ⑤ 治療 ⑥ 女性の健康 ① 職場環境 1 001010 1

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<u>予算</u>

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■ 委員会メンバーへの報酬はないが、委員会運営にかかった諸経費は、連邦政府から 支払われる

TTAATC A AAGA C CTAACT CTC/

■ 予算執行については、毎年、下院司法委員会がNAS(全米科学アカデミー)の 会計報告を審査する

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Center for Research and Development Strategy - JST

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米国動向報告

<u>予算</u>

収入源の内訳(2005年度)

キサルウルこの旧るの中元(2005年

連邦政府からの収入の内訳(2005年度)

非連邦政府機関(財団・企業)

\$59,952,689

その他 36%

ATC A AAGA LL

24%

A TCTATAAGA 連邦政府機関

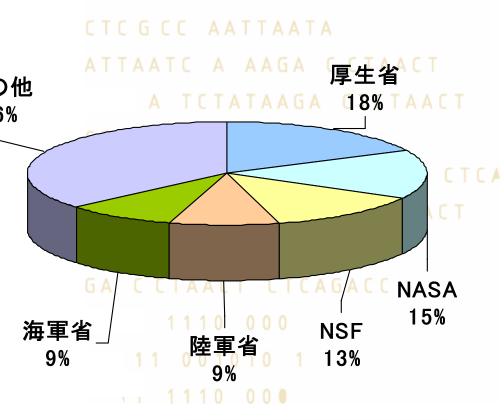
76%

\ATC A AAG \$185,553,721

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合計:\$245,506,410

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職員(Staff)

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■ ナショナルアカデミーズ全体で1,100名が雇用されている (フルタイム、パートタイム等の形態がある)

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■ 一委員会につき、一名が調査責任者に任命されるAATC A AAGA CCTAACT

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■ 調査、執筆、スタイル・フォーマットの調整等、報告書作成の多くの段階に関るが、あくまで結論や提言は委員会メンバーが出すものであり、職員が独自の意見を述べることはない

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会員(Committee Member)

LC AAAA GGCCI

■ 各組織の会員数は・・・

NAS: 約1,900名の会員と約350名の外国人会員 AATC

NAE: 約1,900名の会員と約180名の外国人会員 A LIA A A

IOM: 約1,500名の会員と約80名の外国人会員

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 政府退職者、産業界退職者、技術者、大学教授等の、その分野で卓越した経験・ 知識を持つ人の中から、その実績により推薦、選考される (現役の政府関係者はいない)

■ 新会員推薦資格はアカデミーズの会員のみが持つ A TCTATAAGA CTCTAACT

■ 会員資格は無期限

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■ 会員は無報酬で働く(必要経費は支払われる)

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委員会

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■ 依頼案件に対し設置される

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■ 年間稼動数は900を超える

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■ 委員会は10-20名で構成され、期間は半年から2年にわたる TTAATA

~依頼から委員会結成、報告書公開までの流れ~

ATTAATO A AAGA COTAACT

アカデミーズの会員、スタッフが依頼機関と研究内容を決定(研究内容の詳細、研究期間、コスト)

※ NRC執行委員会(The Executive Committee of National Research Council Governing Board) が 「丁 [本 審査・承認

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研究委員会(Study Committee)を結成

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※スタッフの主導でメンバーに相応しい人材を選び、NRC議長が正式に任命する

CTCAGACC

公開会議、情報収集、調査、検討を行いながら報告書を作成

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報告書作成に関っていない専門家(匿名)による外部審査 The Report Review Committee (RRC) による確認

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Center for Research and Development Strategy - JST 独立行政法人 科学技術振興機構 研究開発戦略センター 11 1110 000

LC AAAA GGCCI

ナショナルアカデミーズプレス National Academies Press

■ ナショナルアカデミーズの出版部門

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■ 毎年、約200-300件の委員会報告書が出版され、そのほとんどがPDF化され、 多くが無料で公開されている

■ 出版物の価格は、利益も損失もないように設定されるため、

売り上げがアカデミーズの収入になることはない

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<u>対象分野(2007年10月現在)</u>

- 農学
- 社会科学
- 生物学
- 経済学
- 化学
- コンピュータ科学
- ■紛争・防衛
- ■地球科学
- 教育_{TAAGA}
- **▲■** Tエネルギー
- INTARP C
- ■環境問題

AA TAATO

- ■研究職への就職機会
- 食糧・栄養ДАТТААТА
- 医療AATC A AAGA C CTAACT
- 国際問題[TATAAGA [TITAAI]]

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- キャリア形成 AATA
- 数学・自然科学

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- 科学政策 ACT CTCAGACC
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- 運輸・1110 000

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<u>農学</u>

CC AAAA GGCCI TAAGA CTCTAACT CI

- A Leadership Summit to Effect Change in Teaching and Learning
- Examining the Safety of Dietary Supplements for Horses, Dogs, and Cats
- Frontiers in Soil Science Research
- Future Contributions of the Biosciences to Public Health, Agriculture, Basic Research, Counter-terrorism, and Non-Proliferation Activities in Russia
- Global Challenges and Directions for Agricultural Biotechnology
- Lost Crops of Africa: Fruits and Vegetables
- Review of NIOSH Research Programs
- The Economic Development and Current Status of the Sheep Industry in the United States
- The National Plant Genome Initiative: Achievements and Future Directions



社会科学

LC AAAA GGCCI

- Adolescent Health Care Services and Models of Care for Treatment, Prevention, and Healthy Development
- Assessing Behavioral and Social Science Research on Aging
- Assessing the Feasibility, Accuracy, and Technical Capability of a National Ballistics Database
- Contributions from the Behavioral and Social Sciences in Reducing and Preventing Teen Motor Vehicle Crashes
- Developmental Outcomes and Assessments for Young Children
- FAA Aviation Safety Inspector Staffing Standards
- Human-System Design Support for Changing Technology
- Impact of Pregnancy Weight on Maternal and Child Health: A Workshop
- Organizational Models From Individuals to Societies
- Pilot Study for Evaluation of USAID Programs to Support Development of Democracy A [A [
- Prevention of Mental Disorders and Substance Abuse Among Children, Youth, and Young Adults: Research Advances and Promising Interventions
- Research and Development Priorities for the U.S. Census Bureau's State and Local Government Statistics
 Program T A A T A
- Review of NIOSH Research Programs
- Strategic Advice on the U.S. Climate Change Science Program
- Strategies for Network Science, Technology, and Experimentation
- Teacher Preparation Programs in the United States
- Treatment of Post Traumatic Stress Disorder (PTSD)
- Understanding Crime Trends: A Workshop
- Women in Science and Engineering: A Guide to Maximizing their Potential
- Youth Population and Military Recruitment: Physical, Medical, and Mental Health Standards

生物学

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- A Leadership Summit to Effect Change in Teaching and Learning
- Adolescent Health Care Services and Models of Care for Treatment, Prevention, and Healthy Development
- Assessing Fundamental Attitudes of Life Scientists as a Basis for Biosecurity Education
- Astrobiology Strategy for the Exploration of Mars
- Biomolecular Materials and Processes
- Defining and Advancing the Conceptual Basis of Biological Science for the 21st Century
- Enhancing the Master's Degree in the Natural Sciences
- Exploring Organic Environments in the Solar System
- Frontiers in Soil Science Research
- Future Contributions of the Biosciences to Public Health, Agriculture, Basic Research, Counter-terrorism, and Non-Proliferation Activities in Russia
- Human Embryonic Stem Cell Research Advisory Committee
- Impact of Pregnancy Weight on Maternal and Child Health: A Workshop A
- International Capacity Building for the Protection and Sustainable Use of Oceans and Coasts
- Lost Crops of Africa: Fruits and Vegetables
- Prevention of Mental Disorders and Substance Abuse Among Children, Youth, and Young Adults: Research Advances and Promising Interventions
- Prevention of Proliferation of Biological Weapons
- Review of Cooperative Projects with Former Soviet Union Biological Weapons Institutes
- Review of NIOSH Research Programs
- Strategic Advice on the U.S. Climate Change Science Program
- The Limits of Organic Life of Planetary Systems
- The National Plant Genome Initiative: Achievements and Future Directions
- Women in Science and Engineering: A Guide to Maximizing their Potential

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経済学

LC AAAA GGCCI ATAAGA CTCTAACT CI

- Capitalizing on Science, Technology, and Innovation: An Assessment of the Small Business Innovation Research Program
- Innovation Inducement Prizes at the National Science Foundation
- Investor Exit Strategies and Entrepreneurial Firm TAACT CTC Growth: Phase One
- Review of NIOSH Research Programs A AAGA CCT
- Strategies for Network Science, Technology, and SACC Experimentation
- Teacher Preparation Programs in the United States
- Women in Science and Engineering: A'Guide to Maximizing their Potential



化学

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- Approaches for the Evaluation of the NIST/NRC Postdoctoral Research Associateships Program
- Enhancing the Master's Degree in the Natural Sciences
- Exploring Organic Environments in the Solar System TAACT
- Frontiers in Soil Science Research 6 CC AATTAATA
- Strategic Advice on the U.S. Climate Change Science T TTA Program
 A TOTALAGA CICTAACT
- Technical Assessment of Environmental Programs at the Los Alamos National Laboratory A CCIAACT CICAGACC
- The Limits of Organic Life of Planetary Systems
- Women in Science and Engineering: A Guide to Maximizing their Potential



コンピュータ科学

LC AAAA GGCCI

- Advancing Software-Intensive Systems Producibility
- Approaches for the Evaluation of the NIST/NRC Postdoctoral Research Associateships Program
- Contributions from the Behavioral and Social Sciences in Reducing and Preventing Teen Motor Vehicle Crashes
- Enhancing the Master's Degree in the Natural Sciences
- Forecasting Future Disruptive Technologies
- Improving Cybersecurity Research in the United States
- Strategies for Network Science, Technology, and Experimentation
- Sustaining Growth in Computing Performance
- Whither Biometrics?
- Women in Science and Engineering: A Guide to Maximizing their Potential

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- Assessing Fundamental Attitudes of Life Scientists as a Basis for Biosecurity Education
- Assessment of Security Technologies for Transportation
- Strengthening Long-Term Nuclear Security: Protecting AACT
 Weapon-Usable Material in Russia

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<u>地球科学</u>

LC AAAA GGCCI

- A Strategy to Mitigate the Impact of Sensor Descopes and De-manifests on the NPOESS and GOES-R Spacecraft
- A Survey of the Scientific Uses of the Radio Spectrum
- Developing Mesoscale Meteorological Observational Capabilities to Meet Multiple National Needs
- Earth Science and Applications from Space: A Community Assessment and Strategy for the A []
 Future
- Enhancing the Master's Degree in the Natural Sciences
- Frontiers in Soil Science Research
- Independent Scientific Review of Everglades Restoration Progress
- Panel on Climate Variability and Change
- Panel on Earth Science Applications and Societal Needs
- Panel on Human Health and Security
- Panel on Land-use Change, Ecosystem Dynamics and Biodiversity
- Panel on Options to Ensure the Climate Record from the NPOESS and GOES-R Spacecraft
- Panel on Solid-Earth Hazards, Resources, and Dynamics
- Panel on Water Resources and the Global Hydrologic Cycle
- Panel on Weather
- Strategic Advice on the U.S. Climate Change Science Program
- Sustainable Underground Storage of Recoverable Water
- Technical Assessment of Environmental Programs at the Los Alamos National Laboratory
- Women in Science and Engineering: A Guide to Maximizing their Potential

<u>教育</u>

LC AAAA GGCCI ATAAGA CTCTAACT CI

- A Leadership Summit to Effect Change in Teaching and Learning
- Adolescent Health Care Services and Models of Care for Treatment, Prevention, and Healthy Development
- An Assessment of Research-Doctorate Programs
- Approaches for the Evaluation of the NIST/NRC Postdoctoral Research Associateships Program
- Assessing Corrosion Education
- Assessing Fundamental Attitudes of Life Scientists as a Basis for Biosecurity Education
- Contributions from the Behavioral and Social Sciences in Reducing and Preventing Teen Motor Vehicle Crashes
- Developmental Outcomes and Assessments for Young Children A AAGA CTAACT
- Early Childhood Mathematics
- Enhancing the Master's Degree in the Natural Sciences
- Evaluation of the Impact of Teacher Certification by the National Board for Professional Teaching Standards (NBPTS)
- Panel on Data Collection for the Assessment of Research-Doctorate Programs
- Prevention of Mental Disorders and Substance Abuse Among Children, Youth, and Young Adults: Research Advances and Promising Interventions
- Science Learning, Kindergarten through Eighth Grade
- Teacher Preparation Programs in the United States
- U.S. Chinese Glossary of Nuclear Security Terms
- Women in Science and Engineering: A Guide to Maximizing their Potential

エネルギー

JGA CCCL 米国動向報告
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- Assessment of Resource Needs for Development of Fuel Cell and Hydrogen Technology
- Review of DOE's Nuclear Energy Research & C CTAACT

 Development Program

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工学

LC AAAA GGCCI ATAAGA CTCTAACT CI

- Approaches for the Evaluation of the NIST/NRC Postdoctoral Research Associateships Program
- Assessing Corrosion Education
- Assessment of NASA's Aeronautics Research Program
- Assessment of Resource Needs for Development of Fuel Cell and Hydrogen Technology
- Assessment of Security Technologies for Transportation
- Biomolecular Materials and Processes
- Contributions from the Behavioral and Social Sciences in Reducing and Preventing Teen Motor A []
 Vehicle Crashes
- Enhancing the Robustness and Resilience of Future Electric Transmission and Distribution in the United States to Terrorist Attack
- Forecasting Future Disruptive Technologies
- Grand Challenges for Engineering
- Independent Scientific Review of Everglades Restoration Progress
- Integrated Computational Materials Engineering: A Grand Challenge in Materials
- Meeting the Workforce Needs for the National Vision for Space Exploration
- Review of DOE's Nuclear Energy Research & Development Program
- Review of NIOSH Research Programs
- Review of NIOSH Research Programs-Construction
- Strategies for Network Science, Technology, and Experimentation
- Sustainable Underground Storage of Recoverable Water
- Technologies to Deter Currency Counterfeiting
- Technology for a Quieter America
- Women in Science and Engineering: A Guide to Maximizing their Potential

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環境問題

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- A Strategy to Mitigate the Impact of Sensor Descopes and De-manifests on the NPOESS and GOES-R Spacecraft
- Assessment of Resource Needs for Development of Fuel Cell and Hydrogen Technology
- Contaminated Drinking Water at Camp Lejeune
- Development and Implementation of a Cleanup Technology Roadmap for DOE's Office of Environmental Management
- Disposition of the Air Force Health Study
- Earth-Atmosphere Interactions: A Workshop on Understanding and Responding to Multiple Environmental Stresses
- Evaluating the Efficiency of Research and Development Programs at the Environmental Protection Agency
- Frontiers in Soil Science Research
- Independent Scientific Review of Everglades Restoration Progress
- International Capacity Building for the Protection and Sustainable Use of Oceans and Coasts
- Lost Crops of Africa: Fruits and Vegetables
- Mississippi River and the Clean Water Act
- Reducing Stormwater Discharge Contributions to Water Pollution
- Review of EPA's Toxicological Assessment of Tetrachloroethylene
- Review of NIOSH Research Programs
- Strategic Advice on the U.S. Climate Change Science Program
- Sustainable Underground Storage of Recoverable Water
- Technical Assessment of Environmental Programs at the Los Alamos National Laboratory
- The Limits of Organic Life of Planetary Systems



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米国動向報告

研究職への就職機会

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■ Women in Science and Engineering: A Guide to Maximizing their Potential

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- A Leadership Summit to Effect Change in Teaching and Learning
- Adolescent Health Care Services and Models of Care for Treatment, Prevention, and Healthy Development

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<u>医療</u>

LC AAAA GGCCI

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- Adolescent Health Care Services and Models of Care for Treatment, Prevention, and Healthy Development
- Disposition of the Air Force Health Study
- Future Contributions of the Biosciences to Public Health, Agriculture, Basic Research, Counterterrorism, and Non-Proliferation Activities in Russia
- Human Embryonic Stem Cell Research Advisory Committee
- Impact of Pregnancy Weight on Maternal and Child Health: A Workshop
- Lost Crops of Africa: Fruits and Vegetables
- Making Best Use of the Agent Orange Exposure Reconstruction Model
- Prevention of Mental Disorders and Substance Abuse Among Children, Youth, and Young Adults:
 Research Advances and Promising Interventions
- Review of Cooperative Projects with Former Soviet Union Biological Weapons Institutes
- Review of NIOSH Research Programs
- Review of NIOSH Research Programs--Personal Protective Technology
- Review of NIOSH Research Programs-Construction
- Review of the Adoption and Implementation of Health IT Standards by the DHHS Office of the National Coordinator for Health Information Technology
- Reviewing Evidence to Identify Highly Effective Clinical Services
- Traumatic Brain Injury
- Treatment of Post Traumatic Stress Disorder (PTSD)
- Women in Science and Engineering: A Guide to Maximizing their Potential
- Youth Population and Military Recruitment: Physical, Medical, and Mental Health Standards

国際問題

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- Establishing Priorities for US-Russian Cooperation in Countering Radiological Terrorism
- Future Contributions of the Biosciences to Public Health, Agriculture, Basic Research, Counter-terrorism, and Non-Proliferation Activities in Russia
- International Capacity Building for the Protection and Sustainable Use of Oceans and Coasts
- Lost Crops of Africa: Fruits and Vegetables TC A AAGA CCTAACT CTC
- Pilot Study for Evaluation of USAID Programs to Support Development of Democracy
- Prevention of Proliferation of Biological Weapons
- Review of Cooperative Projects with Former Soviet Union Biological Weapons Institutes
- Strategic Advice on the U.S. Climate Change Science Program
- Strengthening Long-Term Nuclear Security: Protecting Weapon-Usable Material in Russia
- 1U.S. Chinese Glossary of Nuclear Security Terms 11110 000



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キャリア形成

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- Meeting the Workforce Needs for the National Vision for Space Exploration
- Women in Science and Engineering: A Guide to C CTAACT

 Maximizing their Potential

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- Approaches for the Evaluation of the NIST/NRC Postdoctoral Research Associateships Program
- Biomolecular Materials and Processes
- Enhancing the Master's Degree in the Natural Sciences
- Frontiers in Soil Science Research
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- Methodological Improvements to the Department of Homeland TAACT
 Security's Biological Agent Risk Analysis
- NASA Astrophysics Performance Assessment
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国家安全保障

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- Assessing Fundamental Attitudes of Life Scientists as a Basis for Biosecurity Education
- Assessing the Need for a Defense Materials Stockpile AATTAATA
- Directed Energy Technology for Countering Indirect Weapons A C CTAACT
- Forecasting Future Disruptive Technologies
- Future Contributions of the Biosciences to Public Health, Agriculture, Basic Research, Counter-terrorism, and Non-Proliferation Activities in Russia
- Prevention of Proliferation of Biological Weapons
- Review and Assess Developmental Issues Concerning the Metal Parts TAACT
 Treater Design for the Blue Grass Chemical Agent Destruction Pilot Plant
- Review Chemical Agent Secondary Waste Disposal and Regulatory Requirements
- Science, Security and Prosperity in a Changing World
- Strategies for Network Science, Technology, and Experimentation
- Strengthening Long-Term Nuclear Security: Protecting Weapon-Usable Material in Russia
- U.S. Chinese Glossary of Nuclear Security Terms



<u>科学政策(1/2)</u>

- A Strategy to Mitigate the Impact of Sensor Descopes and De-manifests on the NPOESS and GOES-R Spacecraft
- A Survey of the Scientific Uses of the Radio Spectrum
- Adolescent Health Care Services and Models of Care for Treatment, Prevention, and Healthy Development
- An Assessment of Research-Doctorate Programs
- Assessing Corrosion Education
- Assessment of Resource Needs for Development of Fuel Cell and Hydrogen Technology
- Assessment of Security Technologies for Transportation
- Astrobiology Strategy for the Exploration of Mars
- Capitalizing on Science, Technology, and Innovation: An Assessment of the Small Business Innovation Research Program
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- Earth Science and Applications from Space: A Community Assessment and Strategy for the Future
- Enhancing the Robustness and Resilience of Future Electric Transmission and Distribution in the United States to Terrorist Attack
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- Future Contributions of the Biosciences to Public Health, Agriculture, Basic Research, Counter-terrorism, and Non-Proliferation Activities in Russia
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- Human Embryonic Stem Cell Research Advisory Committee
- TIndependent Scientific Review of Everglades Restoration Progress
- International Capacity Building for the Protection and Sustainable Use of Oceans and Coasts
- Large Optical Systems in Space
- Meeting the Workforce Needs for the National Vision for Space Exploration
- NASA Astronomy Science Centers: An Assessment of Best Practices and Guiding Principles for the Future
- New Opportunities in Solar System Exploration: An Evaluation of the New Frontiers Announcement of Opportunity
- On Being a Scientist: Responsible Conduct in Research -- 3rd Edition



科学政策(2/2)

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- Panel on Human Health and Security
- Panel on Land-use Change, Ecosystem Dynamics and Biodiversity
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- Strengthening Long-Term Nuclear Security: Protecting Weapon-Usable Material in Russia
- Sustainable Underground Storage of Recoverable Water
- Technologies to Deter Currency Counterfeiting
- The Limits of Organic Life of Planetary Systems
- The Scientific Context for the Exploration of the Moon
- Treatment of Post Traumatic Stress Disorder (PTSD)
- U.S. Chinese Glossary of Nuclear Security Terms
- Whither Biometrics?
- Women in Science and Engineering: A Guide to Maximizing their Potential

Youth Population and Military Recruitment: Physical, Medical, and Mental Health Standards

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■ Forecasting Future Disruptive Technologies AAGA CTCT/

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- Panel on Water Resources and the Global Hydrologic Cycle
- Panel on Weather

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- Review of the NASA Astrobiology Institute
- The Limits of Organic Life of Planetary Systems
- The Scientific Context for the Exploration of the Moon
- Workshops on Technology for Commercialization and Human/Robotic Exploration and Development of Space

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<u>運輸</u>

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- Determination of the State of the Practice in Travel Forecasting
- FAA Aviation Safety Inspector Staffing Standards TAATE A AAGA C CTAACT CTEA
- Long-term Viability of Fuel Taxes for Transportation Finance
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