




air pollution control district
SANTA BARBARA COUNTY

Agenda Item: D-8
Agenda Date: August 17, 2023
Agenda Placement: Admin
Estimated Time: N/A
Continued Item: No

Board Agenda Item

TO: Air Pollution Control District Board

FROM: Aeron Arlin Genet, Air Pollution Control Officer 

CONTACT: Lorena Saldana, Executive Assistant/Board Clerk, (805) 979-8282

SUBJECT: District Hearing Board Appointment

RECOMMENDATION:

Consider recommendation of the District Hearing Board Nominating Committee to appoint Mr. Jonathan Cook as a public member in the engineer position on the District Hearing Board.

DISCUSSION:

The Santa Barbara County Air Pollution Control District (District) Hearing Board is a quasi-judicial body made up of five members appointed by, but acting independently of, the District Board of Directors. The Hearing Board was established to hear appeals of Air Pollution Control Officer (APCO) permit decisions, applications for variances from District Rules and Regulations, and petitions for abatement orders submitted by the APCO. The Hearing Board consists of one member admitted to the practice of law in the state, one member who is a professional engineer, one member from the medical profession, and two public members. However, since our District has a population of less than 750,000, the District Board may appoint public members to the Hearing Board if they are unable to appoint a person with the qualifications specified above.

On April 10, 2023, the District was informed that Hearing Board Member Frank Peters would not seek reappointment after his term expires in August 2023. Mr. Frank Peters has been serving as a public member in the engineer position on the District Hearing Board since June 2017.

The District opened a recruitment from May 1-31, 2023 to fill the vacant engineer position on the District Hearing Board. California Health and Safety Code requires that the Hearing Board engineer member be a professional engineer registered as such pursuant to the Professional Engineers Act. After advertising for the position in the newspaper, sending out a broad notification to multiple Mailchimp listservs, highlighting the recruitment on the District's website, and notifying local professional agencies, engineering associations at UC Santa Barbara and California Polytechnic

Aeron Arlin Genet, Air Pollution Control Officer

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State University San Luis Obispo, and all District Board, Hearing Board, and Community Advisory Council members, the District received four applications for the vacant engineer position; however, only three applicants were practicing engineers and only one of the three was a professional engineer registered as such pursuant to the Professional Engineers Act.

The District Hearing Board Nominating Committee is made up of Board members Das Williams, Paula Perotte, Joan Hartmann, Bob Nelson, and Alice Patino. The Committee met on June 15, 2023 to interview the three applicants who were practicing engineers. Following interviews, the committee discussed candidate qualifications and recommended that the District Board of Directors appoint Mr. Johnathan Cook for a three-year term on the Hearing Board. The motion was carried unanimously. Although Mr. Johnathon Cook is a practicing engineer, he is not a professional engineer registered as such pursuant to the Professional Engineers Act, so if approved, he would serve as a public member in the engineer position on the District Hearing Board.

Attached for your Board's review and consideration is a copy of Mr. Cook's Hearing Board application (personal information redacted).

ATTACHMENTS:

- A. Jonathan Cook Hearing Board Application

ATTACHMENT A

Jonathan Cook Hearing Board
Application

August 17, 2023

Santa Barbara County Air Pollution Control District
Hearing Board Nominating Committee

260 San Antonio Road, Suite A
Santa Barbara, California 93110

APPLICATION FOR HEARING BOARD

air pollution control district
SANTA BARBARA COUNTY

Clerk of the APCD Board
260 San Antonio Road, Suite A
Santa Barbara, CA 93110-1315

(805) 979-8050 www.ourair.org

Instructions:

1. Read the public notice to determine if you meet the qualifications for the position.
2. An original application must be timely filed for each position.
3. Please type or print in blue or black ink.
4. Answer all questions accurately and completely. Incomplete applications may be disqualified. If additional space is needed, attach a sheet of paper.
5. Resumes are viewed as additional information and not in lieu of a completed application.
6. This application shall be maintained for a period of one year only.

Date Received:

May 30, 2023

Please indicate the Hearing Board category (or categories) for which you are applying:

Attorney Member Medical Profession Member Engineer Member Public Member

NAME _____
Last: Cook First: Jonathan Middle: Don

ADDRESS _____
Street: _____ City: _____ Zip Code: _____

CELL PHONE _____ EMAIL _____

BUS. PHONE N/A HOME PHONE N/A

Are you or have you been employed by the SBCAPCD? Yes No

Department: _____

Title: _____ Dates: _____

Are you related to any SBCAPCD employee? Yes No

Name of Relative: _____

Relationship: _____ Department: _____

The APCD Hearing Board hears and renders decisions on matters of a technical nature involving air quality. Please describe any technical experience, training, or education you have that directly relates to air quality and how it has prepared you to be an effective Hearing Board member.

I am a chemical engineer by training and have hands-on experience working with substances impacting air quality: VOCs, halogens, and respirable dusts. Beyond my relevant work as a process engineer and knowledge of critical concepts like PEL levels, hazard classes, and protection factors, I have intimate knowledge of equipment installation and planning interfacing with corporate Environmental Health & Safety personnel, facility contractors, and vendors of abatement technology. While I am not a CA certified PE, my BS in Chemical Engineering is ABET-accredited, and I bring two additional Master's degrees.

Please explain why you are interested in serving on the APCD Hearing Board.

I am interested in serving on the APCD Hearing Board to be able to use my technical skills in a way that benefits the community and develop my own understanding of county-level planning and regulation. As a decade plus resident of the Central Coast, I also want to ensure safe clean air that myself, family, and fellow residents can enjoy while out for morning runs, evening walks, and weekend sports.

Please describe any experience(s) you have as a member of a Board.

I have minimal experience as a Board member, but in my current role regularly present to change control boards comprised of management level personnel with a variety of technical backgrounds and responsible for controlling risk to high-value products.

Do you have any commitments which would prevent you from meeting the attendance requirements of the Hearing Board? If yes, please explain.

I do not.

Do you work for or have a financial interest in any source regulated by the APCD? If yes, please discuss.

Yes, I work for Raytheon Technologies in Goleta, regulated by the APCD. I would recuse myself from voting on any related measure, although would be available for any questions if needed.

Please list professional, trade, or business associations held which relate to the Hearing Board category for which you are applying.

I am a member of Tau Beta Pi, the engineering honor society.

List any additional information explaining your qualifications, including relevant volunteer activities, community organization memberships, accomplishments, publications, or awards. Attach additional sheets if necessary.

My first role after graduating was for a local startup with ~10 employees, while I now work for a company with hundreds of local employees but over a hundred thousand global ones. That gives me a unique understanding of the challenges each organization has and how effective regulatory understanding can improve outcomes for both the local area, but also for the company, by providing expert references (such as the use of EPA's CAMEO to model potential risk) and my own natural curiosity and love of learning to discover what obstacles exist and what data is needed to reduce or eliminate risk. I am an author on several published patents, and am very interested!

EDUCATION

College, Business or Trade Schools Attended	Major	Degree(s) Received
University of California, Santa Barbara	Chemical Engineering	BS
University of California, Santa Barbara	Material Science	MS
Purdue University	Global Supply Chain Management	MS

REFERENCES - Give names of three persons, not relatives, who have knowledge of your character, experience, community involvement, and abilities.

NAME	ADDRESS	PHONE NO.	OCCUPATION
Eric Heinsohn	██	██████████	Facility Mngr.
Veronica Cintrón	██	██████████	Engr. Mngr.
Agustine Ortiz	██	██████████	EH&S Mngr.

I HEREBY CERTIFY THAT ALL STATEMENTS MADE IN THIS APPLICATION ARE TRUE AND COMPLETE.

APPLICANT'S SIGNATURE Jonathan D. Cook DATE 5/30/2023

Jonathan D. Cook - Process Engineer and Operations Specialist

SUMMARY

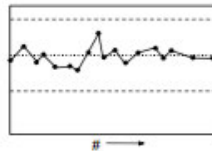
An experienced professional with a background in chemical process engineering, hands-on experience with manufacturing process scaleup and facility infrastructure, and the organizational skills needed to excel in operations management.

AREAS OF EXPERTISE



Facilities & Infrastructure

- ❑ Worked with facilities and outside contractors on equipment installation requirements and scheduling
- ❑ Generated plant wastewater flow estimates and piping diagrams with appropriate waste segregation for 30k sq ft facility
- ❑ Executed capital acquisition projects from initial specifications and proposal through installation and process validation
- ❑ Generated and reviewed P&IDs for toxic gas manifolds and supply systems, new equipment, and experimental setups



Process Engineering

- ❑ Qualified changes through process change control boards
- ❑ Performed statistical validation of metrology methods and process changes
- ❑ Utilized computational fluid dynamics to plan experiments and improve processes
- ❑ Developed wide variety of chemical processes
- ❑ Troubleshot process and tool issues, identified root causes, and requalified tools for production
- ❑ Trained technicians and engineers
- ❑ Created and updated standard operating procedures and checklists for production processes



Environmental Health & Safety

- ❑ Managed regular hazardous waste disposal and created new waste profiles
- ❑ Point of contact and author of annual reports for wastewater and air pollution agencies
- ❑ Created and led trainings for proper use of PPE and chemicals onsite
- ❑ Generated Job Hazard Analyses
- ❑ Experience with wide range of chemicals (Cl₂, Br₂, HF, HNO₃, HCl, KOH, NH₃, acetone, isopropyl alcohol, TMA, epoxies & more)
- ❑ Specified upgrades and installations for facility life safety systems



Operations Management

- ❑ Led multi-year effort to scaleup and sustain manufacturing of polycrystalline gallium nitride
- ❑ Managed manufacturing operations and direct/indirect reports to meet production targets and planned operating expenses
- ❑ Presented regular project updates to upper level management
- ❑ Generated production cost models
- ❑ Collaborated with facilities, EHS, management and engineering on equipment installations and process scaleup
- ❑ Monitored EAC for capital projects

EDUCATION

M.S. in Global Supply Chain Management, Purdue University (2021-2023)

- Coursework including Financial Management, Managerial Economics, Talent Management, Negotiations, and Manufacturing Management & Control

M.S. in Material Science, University of California at Santa Barbara (2012-2014)

- Emphasis in Electronic and Photonic Materials
- Authored report on Simulated Heat Effects in Laser-based Lighting Systems

B.S. in Chemical Engineering, University of California at Santa Barbara (2009-2013)

- Major courses in Process Control, Chemical Process Design, Thermodynamics, Statistical/Analytical/Numerical Methods, Reaction Engineering, and Physics
- Completed Engineering Honors Program and member of Tau Beta Pi

MicroMasters in Supply Chain Management, MITx (2016-2018)

- Coursework comparable to APICS CSCP certification

PROFESSIONAL EXPERIENCE

Principal Multi-Disciplined Engineer, Raytheon Technologies, Goleta, CA	<i>May 2022-Present</i>
Senior Multi-Disciplined Engineer, Raytheon Technologies, Goleta, CA	<i>July 2019-May 2022</i>
Associate Production Manager, Kyocera, Goleta, CA	<i>September 2017-July 2019</i>
Chemical Process Engineer, Soraa, Goleta, CA	<i>June 2014-September 2017</i>
Process Engineering Intern, Soraa, Goleta, CA	<i>September 2011-June 2014</i>
Research Intern, Eindhoven University of Technology, Netherlands	<i>June 2011-August 2011</i>
Department of Homeland Security Funded Research Intern, Lawrence Livermore National Laboratory, CA	<i>June 2010-September 2010</i>

PUBLICATIONS AND AWARDS

1. D. Pocius, D. Kamber, M. D'Evelyn, **J. Cook**. "Method and system for preparing polycrystalline group III metal nitride" U.S. Patent US11047041B2. Issued 6/29/2021.
2. D. Cardwell, M. D'Evelyn, **J. Cook**. "High quality group-iii metal nitride seed crystal and method of making" U.S. Patent Application US20210222317A1. Published 7/22/2021.
3. W. Jiang, M. D'Evelyn, D. Kamber, D. Ehrentraut, **J. Cook**, J. Wenger. "Improved group iii nitride substrate, method of making, and method of use" US Patent Application US20210249252A1. Published 8/12/2021.
4. M. D'Evelyn, P. von Dollen, L. Gay, D. Pocius, **J. Cook** "Ultrapure mineralizer and improved methods for nitride crystal growth". US Patent Application US20220136128A1. Published 5/5/2022.
5. W.Jiang, D. Ehrentraut, **J. Cook**, D. Kamber, R. Pakalapati, M. D'Evelyn. "Transparent, conductive bulk GaN by high temperature ammonothermal growth". Phys. Status Solidi B,. Volume 252, Number 5, 1 May 2015, pp. 1069-1074.
6. An acknowledged contributor on three papers from Soraa in the Japanese Journal of Applied Physics, Applied Physics Express, and Journal of Crystal Growth.
7. Multiple Achievement and Spot Awards received at Raytheon Technologies related to capital projects and process development.
8. RISE 2022 awardee for top 2% of engineers at Raytheon Intelligence & Space