



Vol. 56, 2022 January issue

JSPE Magazine Quarterly

The Japan Society of Professional Engineers



Topics

- New Year's Greetings from JSPE President

- Contents -

1	New year's greeting from JSPE president	<u>1</u>
2	PE registration and renewal, FE/PE exam experience	<u>2</u>
3	Ethics:	<u>3</u>
4	How we know PE	<u>7</u>
5	Introduction to NCEES topics	<u>8</u>
6	Application extension of NSPE membersip fee support	<u>12</u>
7	Member's report-1:	
	Diversity and cooperation in the field of technology (4)	<u>14</u>
8	Member's report-2: Introduction to FY2021 NSPE webinar	<u>18</u>
9	Variables from PEple	<u>28</u>
10	Board Topics, website and SNS news	<u>34</u>
11	CPD seminar and engineer's Salon report	<u>35</u>
12	Coming events	<u>38</u>
13	New members	<u>40</u>
14	Postscript	<u>42</u>

Cover page: Wind Power in Germany

How do we create and use energy? This is one of the challenges that we engineers must solve.

1

New year's greetings from JSPE president

Providing membership services in response to social progress

Happy New Year. In 2021, despite the continuing spread of the new coronavirus infection, we would like to participate in and cooperate with JSPE's various activities. Thank you very much.

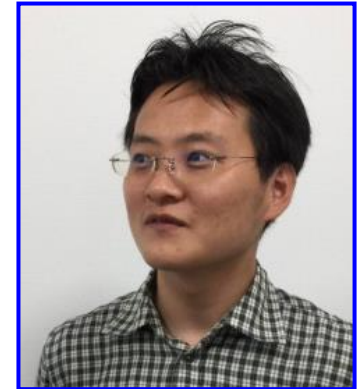
At the annual meeting in June 2021, when I took over the position of chairman of the board of directors from former Chairman Moriyama, I reconsidered what made me decide how I joined JSPE.

When I was a student, the scope of the FE exam basically covers the entire engineering field, and I was surprised to learn the baseline difference with American students who are rivals in society, and it became the same level. I passed the E exam. However, there is an organization called JSPE when searching the web site because it is not known where to start to aim for the next PE. I have advice on registration at the seminar, and I also held a seminar in Kobe, so first of all, I jumped in. The first seminar was onigane, and from the true story of the seniors who are in charge of the project as a practical work, engineers need to understand not only technical savvy but also Economics who deal with numbers. It is a good memory that I carved in my heart.

After consultation at the social gathering after this seminar, we understood the specific path to obtaining PE, proceeded with the examination of CE of NCEES and registered states, and in June 2016, I registered as PE in Electrical and Computer in Delaware. After registering for PE, former Chairman Kawamura asked me to act as a board member while I was involved in the support of the younger people in order to pass on the assistance I received to the next.

Looking back at that time, while there are many parts of the information leading to PE being made by people among members, we were able to satisfy the needs of our members. Face to Face was important. Today, technological advances and coronal ravages have led to an increase in the number of things that were previously met-to-face online, and the traditional style of JSPE is not in line with the needs of society. I felt that it was necessary to correct this discrepancy, and the activity slogan for FISCAL 2021 was defined as "Reconstruction of PE image required by society", and built various seminar environments based on online and J using SNS we have been working to raise awareness of JSPE. From the viewpoint of building a network between members, seminars mainly online have a lower density of interaction than conventional face-to-face methods, and although they are trial and error, we have not yet found a clear answer. Based on the advice of our members, we will continue to improve and provide even more fulfilling services.

In addition to overcoming the current situation of covid-19, we hope to be able to play an active role with our members in a society that has progressed further by experiencing coronal evils, and we will replace it with a new year's greeting.



January 1, 2022 Chairman


Tokoh Nishikubo

Members who have passed the PE registration or FE/PE exam by December 2021 are: Congratulations to everyone.

* Fall 2018 (Vol. The text of the experience record is posted on the web from 43).

<https://www.jspe.org/member/magazine/magazine-index/>

* Some browsers may not be able to open the file properly. If you have any problems, please try to reopen the file in a different browser.

(Verified browsers: Google Chrome, Microsoft Edge, Internet Explorer)

* The latest test information, the path to passing and registration are very valuable information, so if you are a member who can provide information, please inform the Public Relations Subcommittee(public.2007@jspe.org).

PE registration

Member ID	Registered state Engineering field	Registration date	Experience report
PE-0310 Shota Minami	Texas Mechanical	2021/06	https://www.jspe.org/member/wp-content/uploads/sites/2/2021/12/2021_TX_mechanical.pdf
PE-0311 Akiya Ueno	Colorado Mechanical	2021/09	https://www.jspe.org/member/wp-content/uploads/sites/2/2021/12/2021_CO_mechanical.pdf
PE-0312 Yohei Ishii	Kentucky Mechanical	2021/09	https://www.jspe.org/member/wp-content/uploads/sites/2/2021/12/2021_KY_Mechanical.pdf
PE-0313 Hiroki Ishikawa	Oregon Mechanical	2021/09	https://www.jspe.org/member/wp-content/uploads/sites/2/2021/12/2021_OR_Mechanical.pdf

PE exam

Member ID	Discipline	Examination date	Experience report
PEN-0223 Hideki Hasegawa	Mechanical	2021/7	https://www.jspe.org/member/wp-content/uploads/sites/2/2021/12/202107_PE_Mechanical.pdf
PEN-0224 Toshihiko Oibu	Industrial&System	2021/10	https://www.jspe.org/member/wp-content/uploads/sites/2/2021/12/202110_PE_IndustrialSystem.pdf
PEN-0225 Yushi Koga	Chemical	2021/11	https://www.jspe.org/member/wp-content/uploads/sites/2/2021/12/202111_PE_Chemical.pdf

Autumn 2021

PE マガジン 2021 年 Autumn

On Ethics: You Be the Judge
Conflicted Loyalties?

倫理： あなたが審判
ロイヤリティーの相反

A professional engineer works for a homeowners' insurance company. What could be wrong with that?

持ち家保険の会社に勤めている PE。何が問題か？

Situation

Engineer Hernández, as a professional engineer and employee of Home Sweet Home Insurance Inc., performs fire investigations and forensic engineering services in homeowner fire damage claims as well as other accident claims made by homeowners on their homeowner's insurance policies. Home Sweet Home Insurance Inc. is owned by a major national property and casualty insurance company that provides homeowners insurance policies to customers.

状況

PE Hernández は Home Sweet Home 保険会社で働いており、持ち家の家主が保険証券に基づき請求する火災事故および他の事故の火災の調査および科学調査サービスを担当している。

Home Sweet Home 保険会社は主要全国損害保証会社が共同で所有しており、持ち家の家主に保険証券を提供している。

What Do You Think?

Would it be ethical for Engineer Hernández to perform forensic engineering services and fire investigations as an employee of Home Sweet Home Insurance Inc.?

あなたはどうか考えるか？

PE Hernández は Home Sweet Home 会社の雇用者として火災の調査および科学調査サービスを担当することは技術者倫理に違反していないか？

What the Board of Ethical Review Said

Conflicts of interest involving professional engineers and the question of conflicted loyalties while rendering services is an ongoing ethical issue for professional engineers. This issue has been examined numerous times in various contexts and

NSPE 倫理審査委員会の見解

サービスを提供している PE を巻き込む利害の相反と矛盾した忠誠心の問題は、PE の倫理問題として議論を進めているホットな問題である。

factual situations by the NSPE Board of Ethical Review.

For example, in BER Case 94-3, Engineer A was a principal in a consulting engineering firm that also served as an equipment manufacturing sales representative. When preparing specifications for the design and construction of manufacturing facilities, Engineer A almost without exception specified the equipment and products developed by the manufacturer that Engineer A represented.

The BER decided that under the facts, Engineer A was serving as an equipment manufacturing sales representative and presumably received reimbursement and commissions in his role, and at the same time he purported to be an independent consultant who served as an agent to represent the best interests of his client. This dual role was entirely inconsistent with the NSPE Code and was unacceptable because it clearly raised the undeniable fact of a quid pro quo or an exchange of valuable consideration for specifying a product.

In addition to creating a serious conflict of interest, the BER noted that an engineer who specifies a certain product line without regard to other competing products in the marketplace could easily cause his client to lose the benefit of new, innovative products and to incur higher costs. Such actions were directly contrary to the engineer's role as an independent professional and as an agent to the owner. Engineer A's dereliction in BER

この問題は NSPE 倫理審査委員会のいろいろな状況と実際に起こった問題として何度も議論されて来た。

事例 BER Case 94-3

Engineer A は consulting engineering 会社の社長で、機器製造の販売の代表でもある。製造施設の設計および建設の計画に際して、当然彼が代表である製造会社が開発した装置と製品を仕様書に記載した。

NSPE 倫理審査委員会はこの状況では、Engineer A は機器製造販売の代表として活動し、報酬と手数料を得ていると推測する。

同時に彼の独立したコンサルタントとして顧客の最大利益をはかっていると言われている。

二重の役割は NSPE 規範に矛盾しており、許容されない。なぜなら、製造物を仕様書に記載する有価約因の引き換えもしくは対価が否定できない事実として持ち上がるからである。

さらに利害の相反として、倫理審査委員会は次のことを注目した。市場の競合の製品を無視して、自分の製品を仕様書に記載した技術者は、顧客に新しい革新的製品を使用するチャンスを失わせる原因をつくる。

そのような行動は、利害関係から独立した技術者および客先の代理人としての技術者規範に相反する。

Case 94-3 was compounded by his apparent failure to disclose his relationship with the equipment manufacturer to his clients.

Other examples of cases involving conflicts of interest include BER Case 81-4 and 87-5, which can be accessed in NSPE's online catalog of BER cases.

Conclusion

Turning to the present case, the facts do not clearly indicate that Engineer Hernández's role was to represent the interests of the insured homeowners in any fire damage or other claims that the homeowners may be making against their homeowner's insurance policy. If Engineer Hernández's role, for example, is solely to conduct an investigation on behalf of the insurance company to provide preliminary information to the homeowner's insurance company, it would be acceptable for Engineer Hernández to perform that function, with the stipulation that any communications with the homeowner should be prefaced with "full disclosure" regarding Engineer Hernández's role and primary duty and loyalty. In such cases, the homeowner would be on notice to retain the services of an independent professional engineer to conduct an investigation. It is understood that independent investigations should be intended to mean investigations performed by individuals with no apparent vested interest or bias in the outcome. It would be ethical for Engineer Hernández to perform forensic engineering services and fire

は機器の製造会社と彼の関係を顧客に対し開示しな
BER Case 94-3 の Engineer A の職務怠慢
だった事が明らかな違反である。

他の利益相反の事例として BER Case 81-4 and
87-5 を NSPE's online で参照のこと。

結論

本事例に戻ると、PE Hernández の仕事は保険証
券にもとづき保険契約者が請求する火災および他の
請求に対して保険契約者の利益を守る役割であると
は明確に示されていない。

もし、PE Hernández の仕事が例えば、保険会社と
して、保険契約をした保険会社に対して単に調査の
初期報告を行う役割であり、PE Hernández の主要
な職務と忠誠に関して全面的に保険契約者に開示し
た場合、PE Hernández の働きは許容出来る。

そのような場合は、保険契約者は PE が利害関係から
独立したサービスを提供してくれると理解してくれる。

利害関係から独立した調査とは、結果に関して個々
の既得権や偏見の無い調査を意味する。

PE Hernández が Home Sweet Home 保険会
社に雇用され、科学的調査および火災調査サービ

investigations as an employee of Home Sweet Home Insurance Inc.

On the other hand, if Engineer Hernández's role is to appear to be employed by an independent company and conduct an independent investigation to determine the cause of the fire or other claims that the homeowners may be making against their homeowner's insurance policy, it would be unethical for Engineer Hernández to perform forensic engineering services and fire investigations as an employee of Home Sweet Home Insurance Inc.

NSPE Code References

II.4.a., II.4.c., II.5., II.5.b., III.1., III.4.b., III.5.b.

For more information, see Case No. 17-11.

More You Be the Judge Articles

Conflicted Loyalties? (October, 2021)

The Ethics of Extending, Receiving Credit (July, 2021)

Elected Officials Make Questionable Decision (April, 2021)

Digital Dilemmas (January, 2021)

Attention: Deadline Closer than Appears (September, 2020)

Translate PE0081 H.Kanno

Translation Supervisor PE0010 H.Hirose

を行うことは倫理違反ではない。

一方、もし PE Hernández が独立会社として保険契約者が保険証券に基づき火災もしくは他の損害の原因を独自調査する場合は、PE Hernández が Home Sweet Home 保険会社に雇用され、科学的調査および火災調査サービスを行うことは倫理違反である。

参考 NSPE Code

II.4.a., II.4.c., II.5., II.5.b., III.1., III.4.b., III.5.b.

さらなる情報は Case No. 17-11 参照

“あなたが審判”の記事

Conflicted Loyalties? (October, 2021)

The Ethics of Extending, Receiving Credit (July, 2021)

Elected Officials Make Questionable Decision (April, 2021)

Digital Dilemmas (January, 2021)

Attention: Deadline Closer than Appears (September, 2020)

翻訳 PE0081 神野

監訳 : PE0010 廣瀬



< JSPE Ethics reviewer comments on this article >

This article is employed by the company as a PE, and if it is given and does business, it will not be a violation of ethics, but if you are independent as a PE, you will be exposed to various customers, so conflicts of interest may occur. In the case of PE in the United States, there seems to be a lot of conflict of interest problem.

4

How we know PE

Jspe members are going to become PE from now on and play an active part as PE, but what was good about knowing PE and actually becoming a PE? We received frank comments from current members. * If you are a member who can provide a frank thought, please contact the Public Relations Subcommittee(public.2007@jspe.org).

<p>Hideki Hasegawa PEN-0223</p> 	<p>< why I'm aiming for PE > < I learned of PE> I had the opportunity to learn about PE licenses in university lectures, and I was impressed by the professor's talk and decided to obtain this license. The experience I gained through studying PE has become invaluable in me.</p>
<p>Keiu Koshikawa ST-0022</p>	<p>How did you get to know < PE> I learned about PE while studying international qualifications related to civil engineering. By becoming a member, I gained benefits such as knowing the experiences of exams and registrations.</p>
<p>Yushi Koga PEN-0225</p> 	<p>How did you get to know < PE> When I was researching on the Internet to acquire qualifications that lead to my expertise as an engineer and the improvement of English skills, I learned about PE.</p> <p>Why are you aiming for < PE> I thought that acquiring an internationally recognized qualification could broaden my career as an engineer, so I decided to get a PE.</p>

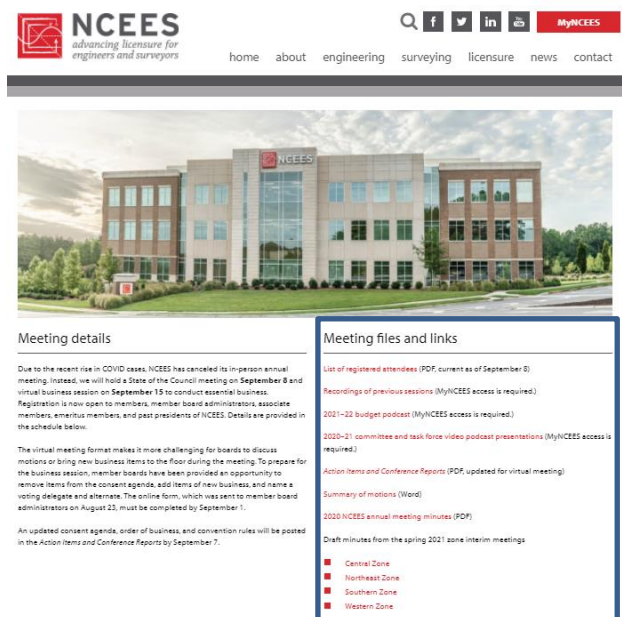
Hiroshi Suzuki (PE-0145, Electrical)

This time, from the October and February issue of NCEES' web magazine "Licensure Exchange", it seems to be especially useful for PE and PE test takers in Japan. Introduce the topic.

[5 October-2021-LEx.pdf \(ncees.org\)](#)

[6 December-2021-LEx.pdf \(ncees.org\)](#)

NCEES Annual General Meeting of for the second year in a row, based on COVID-19 concerns. It became a virtual format. **This year's 100th anniversary** and somehow in New Orleans, Louisiana we have been aiming to hold. Finally Zoom on September 15 I held it. Incumbent at the time President Christopher Knotts, P.E. Under the call-up, All 69 NCEES member committees named voting delegates ahead of the meeting. **2022-23 President in order to Rhode Island State's Christopher Duhamel, P.E., P.L.S. elected** Was. At the meeting a variety of issues, including issues related to continuing education, exams, NCEES fiscal policy, and public assistance were covered. And afterwards **President-Elect (The next P elected last year resident) Brian Robertson, P.E.** Gavel to (gavel) passed. About the vision for the next year a discussion took place. What's the record of the discussion? ncees.org/annual_meeting It is listed in. 「MyNCEES access required」 The information with the annotation is, Register for exam information 「MyNCEES」 Login information in can be accessed I don't have it. [Here](#) The minutes of inspection I can. If you are interested, please take a look.



The screenshot shows the NCEES website header with the logo and navigation menu. Below is a large image of the NCEES building. The main content area is divided into two columns. The left column, titled "Meeting details", contains text about the cancellation of the in-person annual meeting and the virtual meeting on September 15. The right column, titled "Meeting files and links", lists various documents for download, including a list of registered attendees, recordings of previous sessions, a budget podcast, committee and task force video podcast presentations, action items and conference reports, a summary of motions, and 2020 annual meeting minutes. A legend indicates that the minutes are available for Central, Northeast, Southern, and Western zones.

Pages with links to annual general meeting records

Well, this time I will introduce this article.

1. **Robertson new P resident's "Four Initiatives"** (October issue p. 2 "Springing into action as Council begins new year")
2. **How engineers deal with the intergenerational gap** (October p. 7 "How to work with five generations")
3. **Appropriate Pricing for the NCEES Exam** (December issue p. 5 "How to work with five generations")

1. Robertson New President "Four Initiatives"

Brian Robertson, P.E. newly appointed as President of NCEES. The four priority initiatives have been set up. These are linked to the purpose of mutuality: **"Strengthen our mission of public protection and protect licenses in line** with the promotion of



BRIAN ROBERTSON, P.E.
NCEES PRESIDENT

New President Robertson

professional deregulation in the United States."

Initiative (1) Reevaluation of policies, opinions and white paper

President Robertson said: "We call this 'spring-cleaning initiative', and we NCEES is the second century of spring. I think it's a good name because it's in the midst of", assigning all the policies, opinions, white papers, and other documents to standing committees, task forces, or staff to see if the content is obsolete.

Initiative (2) Land Surveyor (Surveyor) Complete Exam Review

Work on dividing land surveyor testing into five different modules began five years ago. Get final recommendations from the Committee on whether the "five modules" are the best or whether the current 6-hour test time should be 8 hours.

Initiative (3) Continuation of "Engineering Licensure Model Taskforce"

We will continue this task force, which we established to study licensing models that encompass engineering positions, from engineers, technologists, and technicians. We are also looking at ways to license academic fields that do not fit the traditional engineering model. This year's research topics are the International Engineering Alliance and models for general and dental care.

Initiative (4) mobility (making one state's license available in another) barrier reduction

We will expand the Western Zone Mobility Challenge, which has been in place since 2019, to all jurisdictions. "Mobility has been a core feature since the creation of NCEES and we want to help move this objective forward into the next year," said President Robertson. I think that is it." It is not easy to implement and suggests the following steps: 1) Each jurisdiction selects a different jurisdiction within each zone to conduct an external peer review of their rules and regulations. 2) Report what is found. 3) Propose or implement changes to reduce barriers to mobility where possible.

2. How engineers can address the generation gap

The author (Suzuki) has been working for foreign companies for many years. There are not many new graduates in the company I work for, but on the contrary, there are cases where younger people are suddenly hired from the outside and become superiors and superiors, and conversely, seniors are joined and become subordinates and colleagues. Among them, I have not only experienced that the sense of gap that I thought was simply a difference in humanity and ability was actually due to a difference in consciousness that is deeply rooted between generations. The licensing committee at NCEES seems to be happening the same way, and we've had some interesting posts about the "five-generation difference in consciousness."

Board Executive Director, Donna Sentell in Louisiana said: "Different **generations work, think, and communicate differently**, for example, baby boomers are on a daily basis for simple 'thank you'. you may want to write down your notes. This is probably alien to millennials born more than 30 years later. Generation X members born in the 1970s may have problems with members of the traditionalist generation who endured the Great Depression and World War II. People over the age of 50 may struggle with the information technology that gen Z members born in the early 2000s know for life. **The point is that workplace diversity is not limited to gender, race, or sexual orientation.** This means that licensees, board members, and employees have different time management and communication styles.]

I'm 52 years old, but my view of the world could be very different from my colleagues 25 years younger than me and licensees 15 years older than me. I'm going to do it. The five-generation feature is an example of the United States, but it can be typified in this way.

- 1) **Traditionalist (born 1901-1945): A** strong respect for authority and rules. Be true to their careers and bosses.
- 2) **Baby Boomers (born 1946-1964): Strong** work ethic. Move upwards in the carrier.
- 3) **Generation X (born 1965-1981, I'm here too):** practical and self-reliant. We value the balance between work and life.
- 4) **Millennials (born 1982-1998): Digital** natives. We value freedom and flexibility.
- 5) **Generation Z (born 1999-2012):** Technology. Career multitasker (do you mean to build a career in parallel, such as a career multitasker/side job)? Focus on security and stability.

Engineering is a very clear profession, but the people involved in it still have fundamentally different backgrounds. Paying attention to **diversity, life experiences and** the influence of people we **interact with** every day helps bridge the **generation gap**.

3. Appropriate pricing for NCEES exams

Of course, there is a fee for the exam. If it is a highly inevitable qualification exam, criticism will rise for too expensive examination fees. NCEES CEO, David Cox said: "In the 1980s, a commercial for a popular spaghetti sauce showed a few families asking if the source contained important ingredients, and every question, the answer was simple. Likewise, "There is a need to include all cost factors for pricing for an exam in order to be successful," he said, explaining the cost factor of the exam.

Exam revenue accounts for approximately 70% of NCEES's total organizational revenue. This is the lifeblood of NCEES and a service to fund the member board. It is important that the exam provides substantial and positive cash flow. With that in mind, we will see what needs to be "there" in terms of computer-based Test (CBT).

Seat/palm scan fee

When a candidate takes a CBT exam, NCEES pays a seat fee to the third-party vendor that manages the exam. In addition, you will pay a fee to verify the identity of each candidate. Currently, the combined two fees are almost 76% of FE's trial price, leaving \$42 of the \$175 exam fee as the other test cost. For PE exams, these fees are 43-50% of the exam income, which increases the margin available for other expenses.

Direct test cost

The salaries and benefits of staff in psychometric services, exam development, committee work (including travel), contract services, consultants, exam security, and exam services are examples of the cost of direct testing. These costs are important for current and future exams and should be part of the exam fee.

Support Services

Support services include committee and board meetings, zone and annual meetings, management of members' board meetings, compensation include outreach and marketing. It also includes support costs for people, IT, finance, marketing, facilities, and overall leadership. These costs are required to maintain and grow the organization and must be included in the exam fee.

Mission Progress

As a non-profit organization, NCEES must consistently pursue driving its mission to promote licensing. To do this, you need to make sure that the price of the exam contains a reasonable "profit" that you can invest in your organization. Changing the pencil and paper exam to CBT is a good example of investment. The previous year's profits were invested in the cost of infrastructure to convert trials to CBT. This ultimately leads to the pursuit of a mission.

value

In addition to the above, you should always consider the value when setting an exam price. If the price is too high, it can be a barrier to licensing, but setting a price too low will not lead to the value of the exam.

The current trial price is not priced enough to cover all of the above costs . The price change for the exam will take effect for one year after approval from January 1. Therefore, the price change approved at the Annual General Meeting of August 2022 will take effect on January 1, 2024.

As you know, nspe annual fees continue to double from the previous 150 USD → 299 USD. This is due to the new membership system, which uniformly collects 299USD, which is a combination of state associations and NSPE annual fees, and changes the proportions of NSPE and state associations depending on the contribution of NSPE support.

* In the past, nspe annual membership fee 150USD + state association annual fee to which it belongs was paid individually

Jspe members basically live in Japan and do not belong to state associations in the United States, so the annual membership fee of the state association was not required, but a uniform 299 USD is charged with the switch to the new system.

JSPE also requested nspe to realize an option without the conventional state association, and although some states have gained understanding, it has not yet been realized. We believe that the establishment of a new option to reduce annual membership fees will require changes to the NSPE membership system itself, so time will be required to achieve this.

It is also important for JSPE as a whole to gather the latest information on THE NSPE, which is the main part of the PE system. Therefore, in consideration of reducing the burden on nspe members, we will collect NSPE information and subsidize half the annual membership fee to members who report in the form of magazines etc. through an external information collection assistance system (see the following conditions for details).

* This information is intended to subsidize NSPE membership fees, but the "External Information Collection Assistance System" provides assistance to members who have collected and reported information that is useful to JSPE members. Therefore, members who plan to collect information such as exhibitions, lectures, museums, etc. can apply under this system. For details, please refer to JSPE magazine vol48.

<https://www.jspe.org/member/wp-content/uploads/sites/2/2019/12/JSPEmagazine2001.pdf>

< Conditions for applying for an nspe membership fee subsidy system using an external information collection assistance system >

- Be a JSPE member and nspe member

Current NSPE members are the main target, but members who join NSPE on this occasion are also eligible.

- Submit the prescribed form to the JSPE Planning Subcommittee (plan.2007@jspe.org) and obtain approval for assistance
- The results of the information collection are compiled into a report and submitted to the Planning Subcommittee (published in magazines and on the website)
- Subsidy rate is 50% of NSPE dues
- The number of applicants is about 15
- Freedom of information gathering theme (see below for jspe's proposed theme)
- Application deadline: 2022/1/30 (extended)
- Application form:

<https://www.jspe.org/member/wp-content/uploads/sites/2/2020/06/JSPE-06-08-Application-of-support-for-gathering-Eng-info.docx>

< theme proposal >

*Depending on the content, one theme is also possible by multiple people

Introduction of NSPE's response to COVID-19

<https://www.nspe.org/resources/coronavirus-covid-19-resources>

Board of Ethical Review History and Recent Trends

<https://www.nspe.org/resources/ethics/board-ethical-review>

Organize ethics Resources for NSPE

<https://www.nspe.org/resources/ethics/ethics-resources/other-ethics-resources>

Insurance system for PE

<https://www.nspe.org/resources/professional-liability/insurance>

NSPE Information Dissemination - NSPE Speaks

<https://www.nspe.org/resources/podcasts>

Nspe Information Dissemination - Daily Design (Business News for PE)

<https://www.multibriefs.com/briefs/nspe/>

NSPE information dissemination _Open Forum in NSPE's Communities

<https://community.nspe.org/home>

NSPE webinar introduction-15 free course in 2020

<https://www.nspe.org/membership/member-benefits/fifteen-free-courses>

NSPE Update

http://www.magnetmail.net/newsletter/index_nspe.cfm?user_id=NSPE&subid=1676

Introduction of NSPE Student Chapter

<https://www.nspe.org/resources/students/student-chapters>

Current Status Of PE License Invalidation Movement_ Threats to Professional Licensure: State Watch

<https://www.nspe.org/resources/issues-and-advocacy/state-watch>

Information arrangement for student members

<https://www.nspe.org/resources/students/student-resources>

Introduction of PE day and Global Engineer day

<https://www.nspe.org/resources/professional-engineers-day>

Introduction of job placement examples to PE

<https://careers.nspe.org/jobs/?showMoreOptions=true>

Topics of the state registered by the PE member himself

[PE board HP for each state](#)

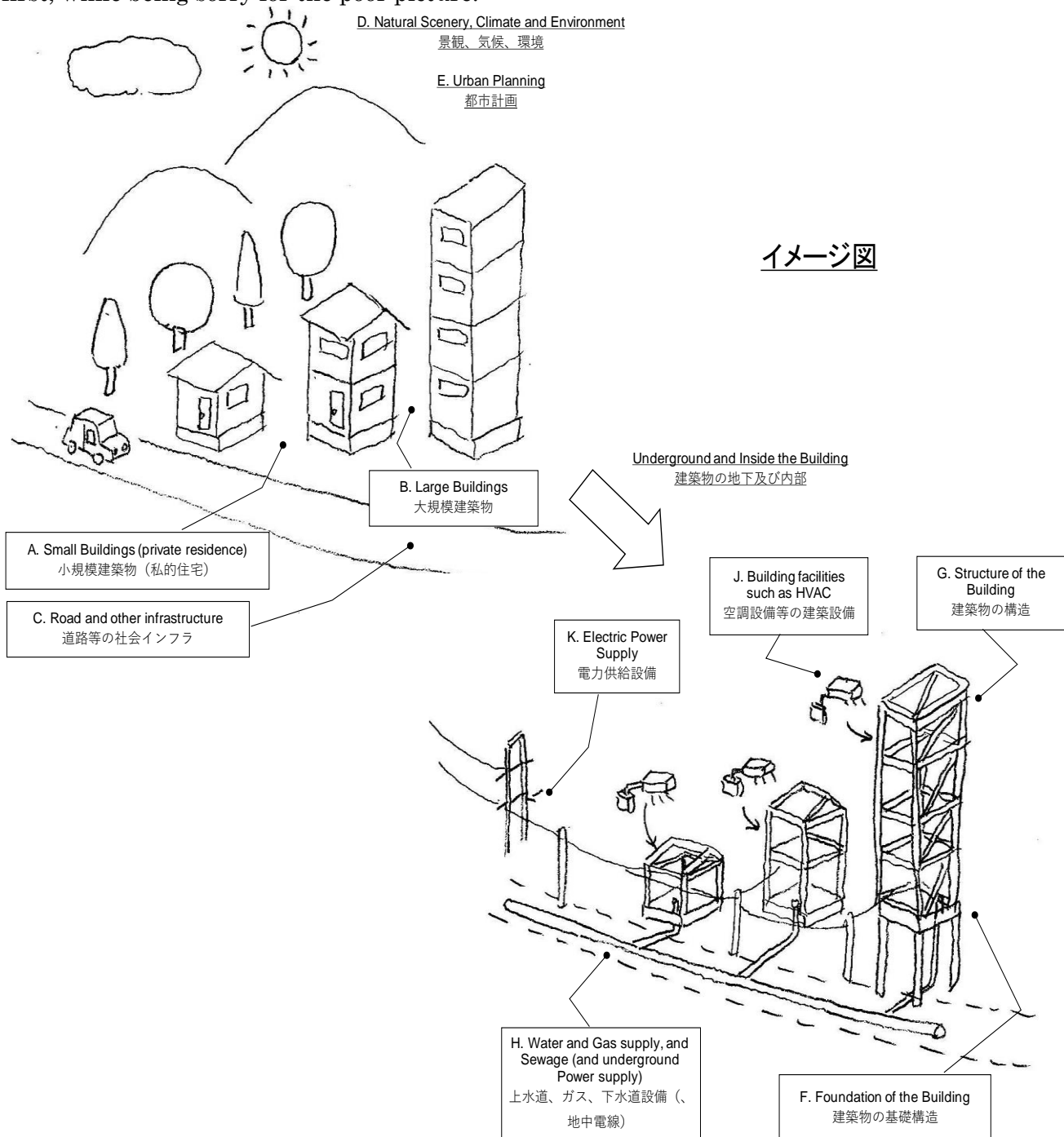
more than

Mutual Understanding between Engineers and Architects in Building Design

PE-0151 Takeya Kawamura
(Former President, NSPE Member)

1. At first

I think that it is no exaggeration to say that infrastructure attached to buildings and buildings is the basis of human civilization, but this time I would like to consider what kind of roles are designed by buildings and infrastructure around us. Please refer to the following image diagram first, while being sorry for the poor picture.



Differences in role sharing between engineers and architects in Japan and the U.S.

In Japan, the Ministry of Land, Infrastructure, Transport and Tourism (Ministry of Land, Infrastructure, Transport and Tourism) is in charge of building administration in general, and first-class architects under the ministry's jurisdiction are also responsible for the design of buildings and related infrastructure. On the other hand, if you read the PE licenses and Architect license laws of each state in the U.S., you can see that Architect and Engineer work together to design buildings, and that there is a license called Landscape Architect that is not found in Japanese national qualifications.

In Japan, architects are defined as "engineers who design and supervise buildings and contribute to the improvement of the quality of buildings" (edited Article 1 of the Architect Act), but in the United States, Architecture is "the art and science of designing, in or whole part, the exterior" that designs the whole and part of the building and its surroundings. and interior of buildings and the site around them", and architect is considered to be a profession focused on art and science rather than engineering ²⁾.

As Japanese architects sometimes translate as "Architects and Building Engineers", it is characterized by the integrated qualifications of architects and engineers in an international sense, and it has been pointed out that the number of Registered Japanese Architects is several times higher than the number of Architects registered in the United States (see Architects architects, etc.). Jabe's individual education certification standards also show that the standards of education required for university students in engineering and architecture are different ³⁾.

Table 1 and Table 2 are a table of explanations for the division of roles between engineers and architects in both Japan and the United States, based on the author's current understanding.

Table 1 Division of roles between Architect and PE in building design (draft)

Type of Building and Infrastructures	P.E. (Mech./Elec.etc)	P.E. (Civil/Structure)	Architect	Landscape Architect
A. Small Building (private residence)		Responsible (some case)	Responsible	
B. Large Building			Responsible	
C. Road and other infrastructure		Responsible		
D. Natural Scenery, Climate and Environment	Leading	Leading	Leading	Advocating
E. Urban Planning		Leading	Advocating	Advocating
F. Foundation of the Building		Responsible		
G. Structure of the Building		Responsible		
H. Water and Gas supply, and Sewage (and underground power supply)	Supportive	Responsible		
J. Building facilities such as HVAC	Responsible			
K. Electric Power Supply	Responsible			

Table 2 Division of roles between Japanese architects and engineers in building design (draft)

Types of buildings and infrastructure	Architect and engineer (machinery, etc.)	Structural design first-class architect and professional engineer (construction, etc.)	First-class architect	City Planner *
A. Small buildings (private houses)			responsibility	
B. Large-scale buildings		responsibility	responsibility	
C. Social infrastructure such as roads		responsibility	advice	
D. Landscape, climate and environment			advice	motion
E. Urban Planning			motion	motion
F. Basic structure of buildings		responsibility	advice	
G. Structure of buildings		responsibility	advice	
H. Water, gas and sewerage equipment (Underground Wire)	advice	responsibility	advice	
J. Building equipment such as air conditioning equipment	responsibility		advice	
K. Power Supply Equipment	responsibility			

* Civil engineering and construction consultants, etc.

Architectural engineer in the U.S. and a Japanese architect

As Table 1 shows, PE in the U.S. is widely involved in the design of buildings and related infrastructure, but the NCEES PE Exam actually has a field called Architectural Engineer⁴⁾. More research is needed, but in the U.S., certain building designs may be left to these Architectural engineers instead of Architect.

In addition, the Mechanical field of PE in the U.S. has a small field of HVAC (air conditioning and refrigeration equipment)⁵⁾, which is a qualification for building equipment in Japan.⁶⁾ and many aspects in common. Mechanical PE, who recently served as NSPE Chairman, was a member of the building equipment engineering company.

Reference ethics materials at architectural institutes

The author received a request from the Architectural Institute of Japan Ethics Committee via JABEE to provide topics for "Architectural Ethics Seminar: Engineering Ethics in the United States" (2, February 1, 2022), and is currently being prepared⁷⁾. In this process, I learned that the Reference Manual for the FE test was quoted in a book published by the Committee in 2014 titled "Architectural Institute of Japan Engineering Ethics Materials"⁸⁾. The reason why the Architectural Institute of Architectural Institute decided that it would be better to refer to the ethical materials of PE/FE in the United States, rather than the ethical materials of the American Institute of Architects (AIA), seems to be that architects and engineers in the international sense mentioned above are united.

What we engineers can do

There is no mention of a professional engineer in Japanese architect law, and there is almost

no mention of the architect in the professional engineer method. On the other hand, for example, in the PE Act in Texas, USA, there is a section on the division of Engineer and Architect (1001.0031), which is divided by almost one page of small font characters.

In this paper, when I undertook the ethics seminar of the Architectural Institute of Japan, I realized that there was almost no public information from the perspective of collaboration between engineers and architects and role sharing, although I kept the related materials that I had been concerned about for a long time.

For images and Tables 1 and 2, NSPE Fellow member Stuart Welsh also emailed him for comment, but he said he had never seen such a review in the U.S.

In addressing social issues such as decarbonization and digital transformation (DX), the theme of sharing roles between engineers and architects seems to be very important, and if there is an opportunity, I would like to further deepen this theme.

Above

bibliography

- 1) For example, the PE Act <https://pels.texas.gov/downloads.htm> and Architect act [in Texas
https://www.tbae.texas.gov/LawsAndEnforcement/StatutesAndRules](https://www.tbae.texas.gov/LawsAndEnforcement/StatutesAndRules)
- 2) For example, Model law <https://www.ncarb.org/sites/default/files/LegislativeGuidelines.pdf>
of the American Council of Architects Board (NCARB)
- 3) https://jabee.org/doc/Category-dependent_Criteria2019.pdf
- 4) <https://ncees.org/engineering/pe/architectural/>
- 5) <https://ncees.org/engineering/pe/mechanical/>
- 6) <https://www.jaeic.or.jp/shiken/bmee/index.html>
- 7) <http://www.ajj.or.jp/jpn/symposium/2022/220201rinri.pdf>
- 8) <https://www.ajj.or.jp/books/productId/590254/>

PE-0253 (Electrical, Delaware)
Nishikubo Tokoh

Do you know the FREE Webinar in THE NSPE? It is an NSPE service that allows you to take 15 PDH webinars per year (free for members, charged for non-members). I joined NSPE about six years ago because it was the timing of the Seattle General Assembly in 2015, and I took 15 webinars following last year, so I will give you an overview. We recognize that the percentage of JSPE members who are members of NSPE is very small, but if you think of it as **a CPD seminar that can be attended** for about **2,000 yen per frame**, it is very good quality I have it. There is a problem with nspe annual fee of \$299, but we hope it will help members continue their education. In addition, in the favor of **NSPE, materials for JSPE members (PDF slide) we have permission to disclose the information.** Since it is **also possible to obtain CPD necessary for PE renewal using** disclosure materials for **self-improvement**, jspe .hp for interested members Please check . The content of Quiz alone is quite educational. (<https://www.jspe.org/member/nspe/webinar-intro/>)

会員トップ ▾ JSPEマガジン ▾ 理事会・総会議事録・定款・細則 ▾ NSPE ▾ 理事メンバー ▾

NSPE WEBINAR 紹介

NSPEでは会員向けに年間15時間のオンラインWebinarを無料で提供しています。有益な内容であるため、NSPEと交渉しJSPE会員向けにセミナー資料を紹介ください。セミナーの内容は、以下の4テーマに分類され、前年のNSPE総会

- ①NSPEの抱えている課題
- ②最新技術の動向
- ③リーダーシップ向上
- ④技術者倫理

※JSPE会員向けの許可であるため、二次配布の禁止等、情報の取り扱いにはご注意ください。

2020年NSPE Webinar一覧

各セミナーの概要とQuiz

- ・ 1 Clients are from Venus, Consultants from Mars: A Guide to Effective Management of Consultants [📄](#)
- ・ 2 Dam Issues Caused by Industrial Exemptions [📄](#)
- ・ 3 Drones: The Sky's the Limit [📄](#)
- ・ 4 Emotional Intelligence for Engineers [📄](#), [reference](#) [📄](#)
- ・ 5 Engineering Ethics: Conflicts of Interest and the Protection of the Public Health, Safety and Welfare [📄](#), [reference](#) [📄](#)
- ・ 6 Engineering Ethics: Serving as an Engineering Expert and Performing Forensic Engineering [📄](#), [ref1](#) [📄](#), [ref2](#) [📄](#)
- ・ 7 Engineering Ethics: The obligation to conduct themselves honorably, responsibly, ethically and lawfully [📄](#), [ref1](#) [📄](#)
- ・ 8 Ethics, Forensics and the PE [📄](#), [ref](#) [📄](#)
- ・ 9 How Engineers Create Added Value [📄](#)
- ・ 10 How Not to Fail as a Leader [📄](#)
- ・ 11 Managing Risk through Arbitration and Dispute Resolution [📄](#)
- ・ 12 Professional Engineer's Role on Application of Artificial Intelligence and Technology [📄](#)
- ・ 13 Role of the PE in Federal Waters [📄](#)
- ・ 14 Text and Emails that Fuel Engineering Success [📄](#)
- ・ 15 Winds of Changes – Electric Transmission [📄](#)

1. What is NSPE Free Webinar?

<15 Course Content >

It is broadly divided into four themes, and includes several lectures at the NSPE General Assembly the previous year.

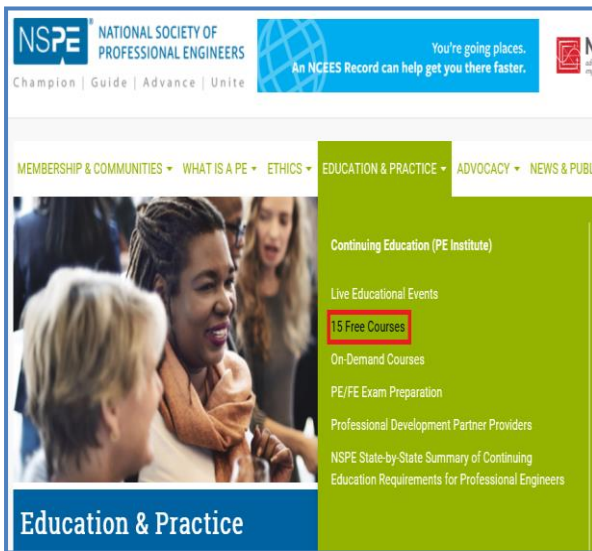
- Nspe's Challenges
- Trends in the latest technologies
- Improved leadership
- Engineering Ethics

Flow of < course>

① Enroll your course

Choose the course you want to take from the NSPE website ⇒ The ⇒ 15 Free Course ⇒ Add to your shopping cart, so log in and buy (discounted and free if you are amember).

* It can be replaced with the next year's course at 1/M every year.



2021 Free Courses

* indicates this particular webinar has been approved through NY Practicing Institute of Engineering (PIE)

- Climate Action for Engineers Series: Structural and Infrastructure Mitigation *
- Engineering Ethics and the Law *
- Ethics Forum: Conflicts of Interest - Employers and Clients *
- Ethics Forum: Conflicts of Interest - Vendors and Colleagues *
- Ethics Forum: Conflicts of Interest - Serving the Public *
- How To Be An Effective Witness
- How to Lead Without Authority
- Leading Project Teams: Emerging Technologies and Smart Design *
- Licensing for Profitability, Agility and Growth for Small and Mid-Sized Engineering Firms
- Mindfulness in Action
- Navigating Unconscious Bias: Strategies for Success
- Passing Down Institutional Knowledge Through Coaching, Mentoring and Storytelling
- Providing Feedback at Work: The STEER Methodology
- The Saint Joseph Water Crisis: Lessons Learned in the Age of Deteriorating Water Infrastructure *
- Your System Now and in the Future - Ensuring Sustainability through Strategic Planning

② Watch the course

After logging in, select "Gotowebinar" from my account's on demandwebinar, and a dedicated page for webinar opens, so "ViewWeb Content On Demand" " to open the Webinar screen.

※ **There is no deadline for taking classes, so if you do not have time, if you only purchase, you can watch at some time after the next year**

Invoice	Purpose	Price	Date	Link	Passcode	Days Left
987220	The Saint Joseph Water Crisis – Lessons Learned in the Age of Deteriorating Water Infrastructure	\$0.00	11/22/2021 12:00:00 AM	GOTO WEBINAR		
987220	Your System Now and in the Future - Ensuring Sustainability through Strategic Planning	\$0.00	11/22/2021 12:00:00 AM	GOTO WEBINAR		
976449	Passing Down Institutional Knowledge Through Coaching, Mentoring and Storytelling	\$0.00	11/12/2021 12:00:00 AM	GOTO WEBINAR		
976449	Providing Feedback at Work: The STEER Methodology	\$0.00	11/12/2021 12:00:00 AM	GOTO WEBINAR		
973762	Licensing for Profitability, Agility and Growth for Small and Mid-Sized Engineering Firms	\$0.00	10/22/2021 12:00:00 AM	GOTO WEBINAR		
973762	Mindfulness in Action	\$0.00	10/22/2021 12:00:00 AM	GOTO WEBINAR		
973762	Navigating Unconscious Bias: Strategies for Success	\$0.00	10/22/2021 12:00:00 AM	GOTO WEBINAR		
963208	Leading Project Teams: Emerging Technologies and Smart Design	\$0.00	10/18/2021 12:00:00 AM	GOTO WEBINAR		
950170	How To Be An Effective Witness	\$0.00	8/13/2021 12:00:00 AM	GOTO WEBINAR		
950170	How to Lead Without Authority	\$0.00	8/13/2021 12:00:00 AM	GOTO WEBINAR		

Links for each webinar

The Saint Joseph Water Crisis – Lessons Learned in the Age of Deteriorating Water Infrastructure

Overview

Handouts

Discussion

Obtaining materials such as slides

The Town of Saint Joseph, Louisiana, is a town of approximately 1,050 persons located on the western bank of the Mississippi River in sparsely populated Tensas Parish, Louisiana. The town is located in an economically disadvantaged area, and 40% of the persons in the town live below the poverty line.

For years, the Town suffered with deteriorating water treatment and distribution infrastructure. The town's source water is produced from the alluvial aquifer and as such is high in iron and manganese content. The high concentrations of iron and manganese in the source water provided significant challenges for treatment in terms of meeting secondary standards. This also contributed to a high corrosivity of the finished water.

The water crisis in St. Joseph lends many lessons related to the difficulties faced by small and large water systems in rural environments in our time. The project team dealt with technical and design challenges, construction challenges, funding constraints, time constraints, and regulatory constraints throughout the process. Through close teamwork and coordination between the owner, engineer, construction manager, contractors, state, local, and federal agencies, the water crisis ultimately became a major success for the stakeholders in the Town and provided a blueprint for addressing such crises in the future. Lessons learned in St. Joseph will be applicable on a small and large scale throughout the United States in the era of aging water infrastructure.

In this session, participants will be presented an overview of the state of the Town's water system prior to and after construction, as well as an overview of the new treatment process and applicability to other aquifer systems. Additionally, participants will be presented with the lessons learned during the crisis, including regulatory involvement, use of multiple funding sources, early owner procurement of long lead time equipment, and alternate project delivery. Additionally, participants will be presented with an outlook of the future of small and large water systems as well as recommendations for the future of water systems.

✓ You are registered!

Key:

- ✓ Complete
- ✗ Failed
- ★ Available
- ➡ Next
- 🔒 Locked

Start watching

Webinar ✓

Quiz ✓

Certificate ✓

Survey

Thank you for taking the time to provide feedback on the NSPE Webinar you just viewed. Your input will help us develop future programs.

Fill Out Survey

How to watch a course



Webinar Screen

③ Cpd Application

Selecting Quiz from the link field on the left side of the Webinar screen opens a screen where you enter student information and a quiz for course content (true/false or selection formula) (quiz is also posted on the website, so please read it.) Quiz passes at 70% or more, and if you pass, a PDH certificate will be sent to the registered email address. Jspe's CPD seminars are also being prepared to achieve this level, so please wait with anticipation.



This certifies that **Tokoh Nishikubo** has completed:

The Saint Joseph Water Crisis – Lessons Learned in the Age of Deteriorating Water Infrastructure

1.00 Professional Development Hours

December 10, 2021

NSPE Online Web Seminar Series



Approval Code: **20217454.00**

Presenter: **David Martin, P.E.**

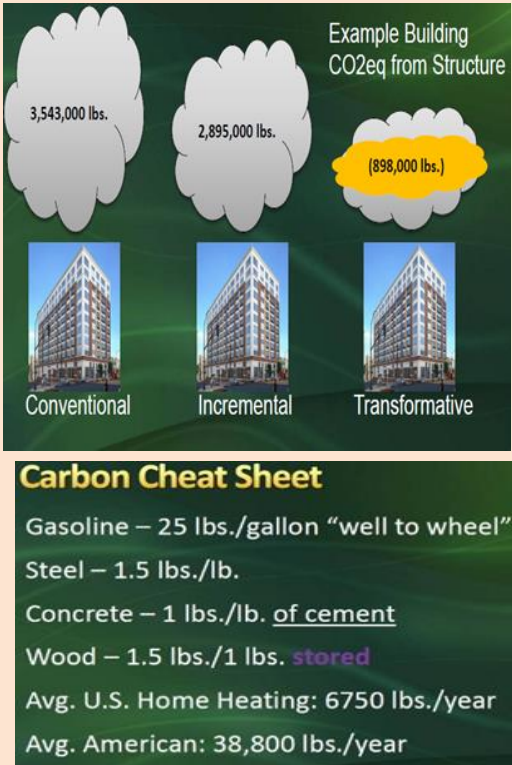
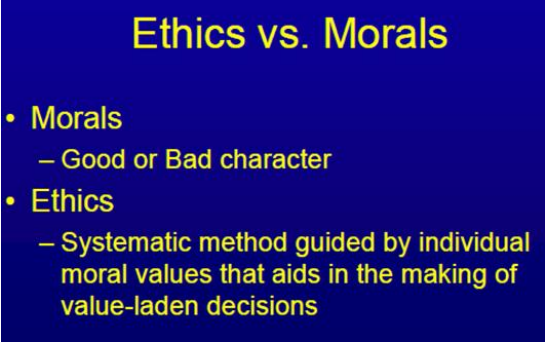
Training Provider: **National Society of Professional Engineers**

Example of A PDU Certificate

2. Introduction to the 20 21-year course

The title and summary of the 20 21-year course are as follows: For these 15 courses, in the favor of the NSPE, we have been granted permission to publish slides for JSPE members. It is posted on the JSPE member homepage. (<https://www.jspe.org/member/nspe/nspe-webinar-Introduction/>)

20 20-Year NSPE Free Course Overview

title	memo
<p>Climate Action for Engineers Series: Structural and Infrastructure Mitigation</p>  <p>Carbon Cheat Sheet Gasoline – 25 lbs./gallon “well to wheel” Steel – 1.5 lbs./lb. Concrete – 1 lbs./lb. <u>of cement</u> Wood – 1.5 lbs./1 lbs. stored Avg. U.S. Home Heating: 6750 lbs./year Avg. American: 38,800 lbs./year</p>	<p>Since 6-8% of total CO2 emissions are based on building materials centered on concrete, it is necessary to reduce the amount of CO2 equivalent in construction in order to suppress global warming. Clients are increasingly demanding less CO2 emissions, and the following points are important as design: In the past, it was not applied to high-rise buildings due to concerns about strength, but in 2017 it was applied to the 17th floor school building at BC Canada University, and the use is spreading as if a bridge centered on wood was constructed.</p> <ul style="list-style-type: none"> • Reduce CO2 emissions when solid concrete by mixing slag and ash with concrete (a much higher design with much higher required strength has traditionally been a problem for reducing strength due to mixing) • Utilization of wood (Not only the amount of concrete used, but also the effect of carbon offsetting of the wood itself, so that the total CO2 as building material can be negative, the value of wood is increasing) • When using wood, vibration and noise design creates engineering value (be careful when compared with concrete)
<p>E Human Emissions: 100 million tons/day</p>  <p>Ethics vs. Morals</p> <ul style="list-style-type: none"> • Morals <ul style="list-style-type: none"> – Good or Bad character • Ethics <ul style="list-style-type: none"> – Systematic method guided by individual moral values that aids in the making of value-laden decisions 	<p>Explain whether ethics can clearly show the difference between Moral and what you need to prepare for as an engineer, even if it's not contractual or legal. There are five points.</p> <ul style="list-style-type: none"> • Do not do anything bad like being at the top of the newspaper • Do not ignore your senses • If you have concerns, submit in a form of document • If you have any concerns, present a backup proposal to show value • Avoid misunderstanding by repeating what the customer has conveyed and what you wanted to convey

<p><u>Ethics Forum: Conflicts of Interest - Employers and Clients</u></p> <p>Conflicts of Interest</p> <ul style="list-style-type: none"> • Not all conflicts are conflicts of interest • What is a conflict of interest? • Financial/Organizational • Why is a conflict of interest a problem? <ul style="list-style-type: none"> ➢ Reliance on professional judgment ➢ Public health, safety, welfare ➢ Competence ➢ Bias ➢ Deception ➢ Trust 	<p>This report introduces the causes and countermeasures of collisions in projects that are involved from the viewpoint of Engineering ethics. Since PE is often a sole proprietor, as in CODE of Ethics of NSPE, you may receive offers from another client for the same project. In Japan, there are many engineers who belong to companies, so it is not familiar, but since PE originally refers to independent engineers, it is necessary to think of it as what it should be and what problems can occur. The point is that if you sincerely disclose that there are multiple offers, you will receive both offers from an economic and career building perspective. On the other hand, if the disclosure is insufficient, it will be Unethical, so be careful.</p>
<p><u>Ethics Forum: Conflicts of Interest - Vendors and Colleagues</u></p> <p>Why Study Engineering Ethics?</p> <ul style="list-style-type: none"> • To Understand the Standards Governing What is Acceptable Behavior in the Practice of Engineering <p>Why Practice Engineering Ethically?</p> <ul style="list-style-type: none"> • Personal Injury/Property Damage • Disciplinary Action • Impact on Reputation, Employer, Clients, Profession • Possible Loss of Job, Business, etc. 	<p>Explain with examples that while work and rewards are inseparable, you need to act ethical on rewards as an engineer. Basically, it is a word that you cannot receive compensation from non-employers, but the points are as follows.</p> <ul style="list-style-type: none"> • Disclosure of relationships that may be affected in business • It is inappropriate to connect financial relationships including loans with business partners, and it is not a problem for business partners to participate in seminars, but contracts that cause economic benefits to the person concerned due to transactions are inappropriate
<p><u>Ethics Forum: Conflicts of Interest – Serving the Public</u></p> <p>Seven Principles Impacting Each Obligation</p> <ol style="list-style-type: none"> 1. Protecting the Public Health, Safety and Welfare 2. Demonstrating Professional Competence 3. Maintaining Objectivity/Truthfulness 4. <u>Addressing Conflict of Interest</u> 5. Preserving Confidentiality 6. Receiving and Providing Valuable Consideration 7. Emerging Areas/Emerging Challenges 	<p>A case study describes the actions that engineers involved in the design of homes in areas prone to flood damage should take. The question of what to do as an engineer when a house is sold to another owner, when the house involved in the design realizes that it is vulnerable to flooding, suggests the wide range of perspectives to have, that it is necessary to act in the way of thinking about customer = public safety, rather than simply selling a product called a house.</p>

How to Lead Without Authority

Means of Leader's Leverage



He explained that when people are moved by power such as positions, the efficiency is reduced by 30% compared to the active movement of people, so it is necessary to lead members through three levels of behavior as a leader. Remember that the reader refers to someone who can make a positive impact on the team. He also makes it clear that if you want to become a leader as an engineer, you have to give up your quest for technology, suggesting that a half-hearted state of not being a reader or an engineer can only be unfortunate for everyone.

How To Be An Effective Witness

HOW TO BE AN EFFECTIVE WITNESS

Answer all questions carefully and
Truthfully

Explain how it is appropriate to testify legally as an engineer. Basically, don't forget to say clearly that you need to answer with integrity and don't know what you don't understand. Also, when asked about documents or assumptions, do not answer without sufficiently understanding the contents.

Leading Project Teams: Emerging Technologies and Smart Design



We will introduce how to lead the team as an engineer against remarkable technological progress, on the subjects of CAD / CAM, drones, electric bikes, far infrared cameras, and IoT in recent years. To give cad an example, a large number of people used to discuss paper drawings, but now engineers can adapt to technological advances, so they're not afraid, as they're arguing on 3D models. In addition, providing such new technologies and education to the team is a key point in launching the team's performance early.



[Licensing for Profitability, Agility and Growth for Small and Mid-Sized Engineering Firms](#)



Why do I need to obtain a license? The answer is Licenses unlock insights. to get opportunities and not to be punished. When it comes to PE licenses, it is not well known in Japan that licenses are required not only for individuals but also for the company to which they belong. In about two-thirds of states, companies also require licenses, and the conditions vary from state to state, such as the number of PE's belonging to the company. This can also be said to be the difference of engineering between Japan and the United States.

[Navigating Unconscious Bias: Strategies for Success](#)



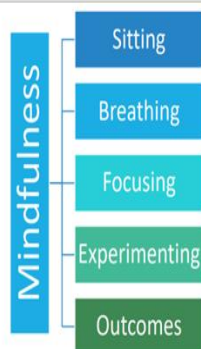
Conclusion

- Faculty Women in STEM face a unique set of challenges that their male colleagues do not!
- Educating yourself about these “unwritten” rules will help you successfully navigate them!
- Continue to learn about these challenges – your comfort level and expertise will grow over time, as will your success!

When considering diversity, first explain how different the way of thinking is between men and women. What impressed me the most was that men are confident and women tend to be pessimistic. Some research shows that women need to spend 2.5 times more time to have the same confidence as men, and recognizing gender differences is important when considering diversity.

[Mindfulness in Action](#)

Mindfulness Meditation: Introduction



Learn how awareness is important to maximize your performance. It is important to think separately from thought and emotion, and to calm down one's mind (short meditation starting with abdominal breathing), and to recognize the situation in which it is placed from both positive and negative aspects. It has long been said in psychology that performance is closely related to the state of mind, but it suggests that it is important for modern engineers to control the state of mind on their own.

Providing Feedback at Work: The STEER Methodology

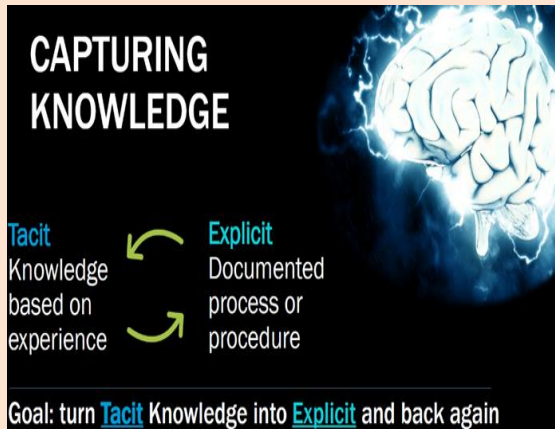
Proposed Mediation Model



What do you provide performance feedback to employees for? The answer to this question is to improve employee performance. Many studies have found that employee performance and employee satisfaction are two things: (1) There is a strong correlation between the two companies (2) Satisfaction will be improved by mental orientation and support from superiors and managers

He explains that an effective feedbacking requires ATEER. S (Specification): Communicate your hopes accurately and clearly T (Timing): Choose the right time and place E (Explanation): Communicate the purpose of the feedback and prepare answers to your questions E (Emotion): Not afraid of feedback and respond to the movement of the mind you feel at the time M (Reinforcement): Provide feedback and follow up when you need it, not the end

13 Passing Down Institutional Knowledge Through Coaching, Mentoring and Storytelling



While business knowledge accumulation is very important for companies, they pay little attention to making experience-based tacit knowledge a documented knowledge. Experience-based tacit knowledge states that it is effective to create an environment where employees who are close to retirement can easily talk to the next generation of employees.

Your System Now and in the Future - Ensuring Sustainability through Strategic Planning

Sustainability Elements

- Financial
- Managerial
- Technical (Engineering)
- Environmental



Based on a small water treatment facility that accounts for more than 70% of the U.S., he introduced what it takes as an engineer to achieve sustainability. It is important to analyze the income and expenditure of machines and equipment in the life cycle, as well as simple regulations and technology trends. It is understandable that the field of Finance included in FE and PE tests needs to be used as a tool for utilizing and objectively evaluating technology.

[The Saint Joseph Water Crisis – Lessons Learned in the Age of Deteriorating Water Infrastructure](#)



St. Joseph Treatment Water Sample (Before and After Rehabilitation)

This report introduces the problem of pollution of tap water and its response to the aging of water facilities in Louisiana in 2016. Water pipes that have been built for more than 50 years have generated countless leaks, and the filter that removes metal ions from groundwater has deteriorated, resulting in a water quality problem that cannot be drunk (the glass above the left photo has a water quality at the time of problem, and the glass below is water quality at the new facility). Since existing equipment could not be installed as it is due to space and water quality, we proposed a system that combines the necessary technologies for CONSULTATION by PE. The water supply business is for small towns with a population of about 1,000 people, and it becomes a private company, and water charges will vary not only by usage fees but also because capital investment changes depending on the water quality standards required from time to time. The aging of water supply facilities is attracting attention in Japan, and I felt that pe needs to strongly call for maintenance and infrastructure replacement because mishandling causes water quality problems.

3. Finally, after webinaring,

This year, I decided to watch webinars on weekends and Fridays, which means establishing my own learning style, and I finished in about six months. NSPE's seminar focuses not only on the latest technologies such as DX, but also on low-tech such as water supply and infrastructure, even though there are specialized differences such as [machinery](#), [electricity](#), and [chemistry](#). I feel that the big point is that there is a point to learn for all engineers. The content also ranges from technology, ethics, and leadership, and may indicate that engineers have ended up in a sense of the time when they only need to understand technology.

I felt that it is necessary to respond to the future JSPE seminars to deepen understanding by listening to the contents of the seminars that I attended over and over again. I feel that it is progress that I felt that it was easy to hear whether my listening ability was trained a little by listening intensively for 15 hours of Listening to English seminars.

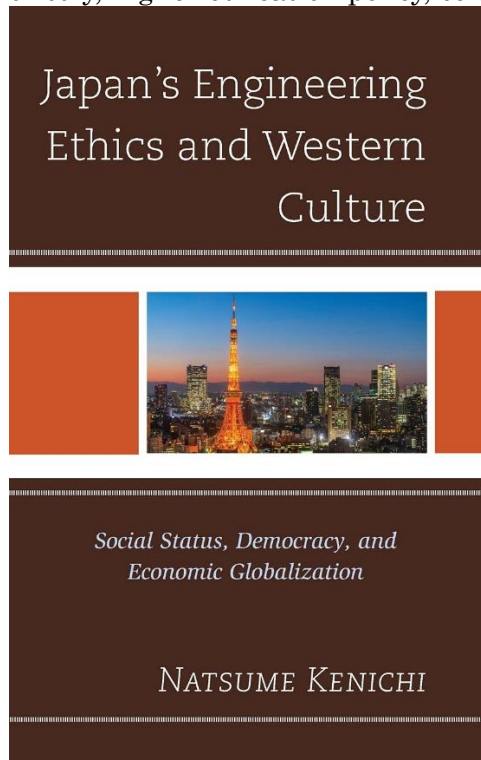
We would like to introduce the 202 2-yearcourse starting from 1/M to members as well, but if you join NSPE, you are free to watch it, so I would appreciate your opinion. If you are a member who can cooperate, please contact the Public Relations Subcommittee(public.2007@jspe.org).

This is a corner where jspe members introduce books in the field of deep relationships. We look forward to your contributions.

[Japan's Engineering Ethics and Western Culture: Natsume Kenichi](#)

This book is a good book on Engineering Ethics in Japan written by Associate Professor Kenichi Natsume of Kanazawa Institute of Technology, who also gave a lecture at the JSPE General Assembly Special Seminar in June 2019.

Since prewar days, we have discussed history from a comprehensive perspective, including not only engineering education but also various issues of science, technology, industry, higher education policy, science, technology and social theory research in Japan.



(PE-0179 Ryo Moriyama)

9.2

Engineering close to you

It is a corner where you can introduce the impression when you discover engineering in casual things and what you encounter with engineering equipment and methods that growl.



When I visited a science center in Singapore, there was a corner that featured engineering. As the name suggests, the Japanese Science Museum had many exhibitions of the "science" part and there were few engineering-related exhibitions, but here, along with the word "Engineers are Future Maker", there was an introduction of world-renowned engineers, showing respect for individual engineers and their achievements. Eiji Nakatsu, who was also in charge of the development of the Shinkansen 500 series from Japan, was featured, and it was introduced that it realized noise reduction at the time of tunnel rushing inspired by kingfisher cutitus. The Singapore Science Center is positioned as an educational center for children, but it is explained in an easy-to-understand manner about its achievements and why it is amazing, and I felt that there is a social infrastructure that makes children feel like an engineer and that it is recognized as a profession. In Japan, I think it would be nice to have an educational facility where "engineers" are introduced with "scientists".

(PE-0193 Tosswa Sato)

9.3

Between the Five Senses

Sketches, drawings, drawings, pictures, photos, anything is fine in the corner where you can post "beauty" and what has been captured with your five senses as a square of Ikoi. Please provide what you feel "beauty" apart from engineering such as equipment carefully designed and manufactured that makes you feel functional beauty, artificial objects integrated with nature that feels the beauty of modeling, or nature that is not touched by people at all.

The following list is a book owned by JSPE and will be transferred free of charge to members who can contribute introductory articles about the book. There are some old books, but I think that you can use it by all means because there are many good books. If you are interested in membership, please contact the Public Relations Subcommittee (public.2007@jspe.org). In addition, if you can donate a good book that is no longer needed, please report to the Public Relations Subcommittee as well.

JSPE-owned books list

publication	title	Author/Editor	URL
1987	Managing Technology	F. Betz	https://www.amazon.co.jp/dp/0135508495
1990	Construction Industry Law and Engineer System	Construction Industry Division, Construction Economy Bureau, Ministry of Construction	https://www.amazon.co.jp/dp/4802876998
1990	Thorough verification: Technological competitiveness in Japan and the U.S.	High-Tech Strategy Study Group	https://www.amazon.co.jp/dp/4532062810
1991	Macro project success and failure	P. Morris	https://www.amazon.co.jp/dp/4753654052
1994	International Qualifications: The Road to Professional Engineers	Japan PE Council	https://www.amazon.co.jp/dp/4478800243
1996	Construction Sociology	Tomoya Shibayama	https://www.amazon.co.jp/dp/4381009371
1997	Perspectives of phase process knowledge of technical knowledge	Hiroyuki Yoshikawa	https://www.amazon.co.jp/dp/4130651110
1997	Range of technical knowledge Artificial object environment and knowledge	Hiroyuki Yoshikawa	https://www.amazon.co.jp/dp/4130651137
1997	The Essence of Technical Knowledge Contextuality and Creativity	Hiroyuki Yoshikawa	https://www.amazon.co.jp/dp/4130651129
1998	Becoming an Engineer	Hiroyuki Iino	https://www.amazon.co.jp/dp/4841902414
1999	Global Ethics and Environment	Nicholas Low	https://www.amazon.co.jp/dp/B000FBF912
1999	Kimmen Bridge Construction Record Video	-	-
1999	Project Management Innovation - Optimal Use of Human Resources, Process Tools	Yoshiaki Shibatao	https://www.amazon.co.jp/dp/4820116649
1999	Illustration International Standard Project Management - PMBOK and EVMS	Toru Nozawa	https://www.amazon.co.jp/dp/4817103213

2000	Engineer Your Way to Success	Shawn P. McCarthy	https://www.amazon.co.jp/dp/0915409178
2000	Ethics and the Built Environment (Professional Ethics)	Warwick Fox	https://www.amazon.co.jp/dp/0415238781
2000	Engineers are in danger now.	Kazuyoshi Mori	https://www.amazon.co.jp/dp/4837803997
2000	Industrial Technology Strategy	Ministry of International Trade and Industry, Institute of Industrial Technology	https://www.amazon.co.jp/dp/4806526347
2000	Reengineering Yourself and Your Company	H. Eisner	https://www.amazon.co.jp/dp/0890063532
2000	PMBOK Japanese Version	PMI	https://www.amazon.co.jp/dp/1930699204
2000	Global Standard for PE Engineers	PE-NET Study Group	-
2000	Environment and Ethics of Science and Technology	P. Arn Vezirind, Japan Professional Engineers Association, Environmental Subcommittee	https://www.amazon.co.jp/dp/4621047795
2001	Engineers View of Human Error	Trevor Kletz	https://www.amazon.co.jp/dp/B07D18VWZQ
2001	Ethics Tools and Engineers	Raymond Spier	https://www.amazon.co.jp/dp/B001EHDNFC
2001	Advice from fepe successful applicants	PE Education Kato Ore	
2001	Taking Technical Risks: How Innovators, Managers, and Investors Manage Risk in High-Tech Innovations	Lewis M. Branscomb	https://econpapers.repec.org/bookchap/mtptitles/0262524198.htm
2001	Ethics of Science Students: Tokyo University of Fisheries Open Symposium	Etsuo Watanabe	https://www.amazon.co.jp/dp/4425981014
2001	Technology in a maze	H Collins	https://www.amazon.co.jp/dp/4759808728
2001	First Engineering Ethics	Ryobun Saito	https://www.amazon.co.jp/dp/481220108x
2002	PE Exam Commentary - Aim! PE/FE	Takao Tonomitsu Wow Publishing	https://www.amazon.co.jp/dp/4820740881
2002	Introduction to Engineering Ethics	Roland Singer Translated by Nishihara	https://www.amazon.co.jp/dp/4621070088
2002	P2M Project Program Management	PM Accreditation Center	-
2002	PE Exam Commentary - Aim! PE/FE	Takao Tonomitsu Wow Publishing	https://www.amazon.co.jp/dp/4820740881
2002	2nd Edition Ethics of Scienceists	Charles E. Harris Jr. Japan Professional Engineer's Association	https://www.amazon.co.jp/dp/4621049992

2003	Science expeditions to be worried about follow nanotechnology	Takashi Tsujino	https://www.amazon.co.jp/dp/4822281582
2003	American Logic	Tatsuhiko Yoshizaki	https://www.amazon.co.jp/dp/410610007X
2003	Jefferson Arch Construction Record Video	-	https://www.amazon.co.jp/dp/1933233044
2003	Engineer Ethics - Aiming for Trusted Engineers	Ryohei Imamura	https://www.amazon.co.jp/dp/4306023648
2003	Ethics of Civil Engineers - Focusing on Case Study	Subcommittee of Ethics And Education, Civil Engineering Education Committee, Japan Society of Civil Engineers	https://www.amazon.co.jp/dp/4810604497
2003	Technical Risk Assessment	Mark G. Stewart	https://www.amazon.co.jp/dp/462794571X
2003	Engineering Ethics and Legal Engineering	Katsuhiko Shimizu	https://www.amazon.co.jp/dp/4320071530
2003	Japan's technological knowledge nurtured by the climate	Yoshio Osaka	https://www.amazon.co.jp/dp/4925085689
2004	Introduction to Technology Management	Kenzo Fujisue	https://www.amazon.co.jp/dp/4822243877
2004	How to increase the technical capabilities	Atsao Mizushima	https://www.amazon.co.jp/dp/B012WC9VQM
2004	Original technology and product development	Kazuo Takemasa	https://www.amazon.co.jp/dp/4434046721
2004	Become a proud engineer Nagoya University	Kotaro Kuroda	https://www.amazon.co.jp/dp/4815804850
2004	Examples and Considerations of Science and Technology Ethics	NSP Ethics Review Committee, Japan Professional Engineers Association	https://www.amazon.co.jp/dp/4621074458
2004	Examples and Considerations of Science and Technology Ethics	NSP Ethics Review Committee, Japan Professional Engineers Association	https://www.amazon.co.jp/dp/4621047949
2004	Biotechnology - Its Impact on Society	Yukio Karube	https://www.amazon.co.jp/dp/4595543840
2004	Supple Professionals - To You Who Asels Scientists and Engineers	Japan Women Engineers Forum Research Subcommittee	https://www.amazon.co.jp/dp/4883850587
2005	Aspects of Engineering Ethics: Intellectual and Ethical Issues of Engineering	Ryobun Saito	https://www.amazon.co.jp/dp/4888488886
2006	Technical Literacy for Social Education	Hiroshi Sakurai	https://www.amazon.co.jp/dp/4486017323
2006	Building for Professional Growth	Paul H. Robbins	https://www.amazon.co.jp/dp/B072B8ML55
2011	The famous words of scientists who changed the times	Akira Fujishima	https://www.amazon.co.jp/dp/4487805317

2012	Algae Handbook	Nobu Watanabe	https://www.amazon.co.jp/dp/4864690022
2014	First Engineering Ethics	Ryobun Saito	https://www.amazon.co.jp/dp/4812213495
2017	Ethics of Science and Technology	Kanazawa Institute of Technology	https://www.amazon.co.jp/dp/4561256997
2017	Kanazawa Institute of Technology Engineer Ethics Education PR Pamph	-	-
2018	PMI Japan Talent Triangle	PMI Japan Branch	https://www.amazon.co.jp/dp/4828205985
2018	Nickokyo Oriented Ethics Seminar	-	-

Board Topics

The matters discussed at the Ordinary Board of Directors meeting in November are as follows: Details of each matter are posted on the member site – JSPE Board meeting minutes.

<https://www.jspe.org/member/report/>

The Board of Directors meeting will be held on Saturday, January 20, 2022, and the Board of Directors meeting will be held on March 12, 2022. If you wish to participate in the Board of Directors as an observer, please contact the Secretariat managers@jspe.org.

【November Ordinary Board of Directors 】

Matters to be discussed

- ◇ Number of members
- ◇ About ISO21500, 21502 book purchase

Matters to be reported

- ◇ Event report
- ◇ MOU with Japan Environment Club (JEC)
- ◇ Slack introduces NPO version of Office365
- ◇ 1st Half Financial Report
- ◇ Regular seminars for learning English
- ◇ Status of the 2021 NSPE Annual Membership Fee Subsidy System
- ◇ Rationalization of annual membership fee management work

Homepage, SNS, member email letter

Thank you for always using the JSPE website and social media. The Public Relations Subcommittee makes every day to provide you with useful updates, such as pe registration updates, through its website, but if you have any comments or comments such as it would be convenient if you posted this on the JSPE website or the information posted was helpful, please contact the Public Relations Subcommittee public.2007@jspe.org Please.

【CPD Seminar Report】

【The 33rd5th Onigane CPD Seminar】

Date: Saturday, October 2, 2021

Location: Zoom

Participation: < Web viewing >28 (25 PE, 1 PEN, 1 FE member, 1 non-member, lecturer included)

Subject: PMBOK Guide® Esics Positioning in 7th Edition

Lecturer: Takeya Kawamura, JSPE member

This seminar was given by Mr. Kawamura, a lecturer, on the 7th edition of the PMBOK® Guide, which was published this year by PMI, Inc., and recent trends in Englishing Ethics.

- (1) Introduction of the relationship between the summary composition of PMBOK® Guide 7th Edition and PMI Code of Ethics
- (2) Examine how various new elements of pmbok® guide 7th edition can be viewed in terms of "ensuring safety"
- (3) Recent examples of Engineering Ethics include nspe, ASCE, and self-driving car ethics.

In addition, in the zoom breakout room exercise, "The seventh edition is less specific.

For beginners, there were active discussions such as "PMBOK® Guide seems to be both easy to understand and on the contrary, there are both sides of the esoteric side", "PE should not sign calculations and drawings that I have not designed", "Contract documents should be checked", "It is important to increase PE even for manufacturers without PE".

【The 33rd8th Onikane CPD Seminar】

Date: Saturday, November 28, 2021

Location: Zoom

Participation: < Web viewing >28 people (Includes 20 PE, 5 PEN, 3 non-members, and lecturers)

Title: Being an engineer in Canada

Instructor: Colin Dale

This seminar was invited by Colin Dale, a friend of Chairman Nishikubo who currently lives in Toronto, Canada, to give an online lecture on the following topics related to engineers in Canada. (Lecture in English)

Professional engineering groups in Canada
 Statistics and characteristics of engineers in Canada
 How Japanese engineers can work and become licensed in Canada

JSPE 定金CPD2021

1-3.PMBOK 5/6th から 7th への構成変更 (及び関連ISO規格の動向)

- PMBOK 6thまでの10の知識分野が、PMBOK 7thでは無くなり、"The Standard"の12の原則と、PMBOK Guide(2021)の8つの実績(パフォーマンス)分野とに再編された。
- PMBOK 6thまでの47のプロセスは、PMBOK Guide(2021)では、8つの実績分野中に一部が現れている。
- ISO 21500 (2021)という新たなISO PM規格も発行されている。これはANSI規格でもある"The Standard"と歩調を合わせていると思われる。
- ISO 21500 (2012) Guidance on Project Management は中身を変えずに ISO 21502 (2020)へ移行した模様。PMBOK 6thまでの10の知識分野と47のプロセスは、この中に保存されていると思われる。

ISO 21500:2021
 プロジェクト、プログラム及びポートフォリオマネジメント—コンテキスト及び概念
 Project, programme and portfolio management – Context and concepts

発行年次: 2021-09-01	規格	8,294 p. (英)
発行年次: 2021-09-01	規格	14,927 p. (英)

(日本規格協会 webdesk)

TK21-021 Oct 2021 © JSPE T.Kawamura 8

1: Professional engineering groups in Canada

- Engineers Canada
 - National association of 12 provincial and territorial regulatory bodies
- engineerscanada.ca



Studying engineering in Canada

Finding work as an engineer in Canada

In addition, in the exercises using Zoom's breakout room along the way, "Canada has about one-third of Japan's population, but there are three times as many registered engineers as Japan", "Raising the ratio of female engineers to 30% by 2030", "Engineer ethics is very important in Canada", and "Engineers can find jobs online" I was able to deepen my understanding among the participants about the situation of engineers in Canada that are different from Japan.

【The 33rd9th ONiGANE CPD Seminar】

Date: Saturday, December 11, 2021

Location: Zoom

Participants: < web viewing >26 people
(Includes PE 24, PEN2, lecturer)

Title: Introduction and Discussion of PMBOK Guide 7th Edition - Pmbok Guide 7th Edition Deciphered in Oni Kinu-ryu

Introduction and discussion of PMBOK Guide 7th edition

-Explaining PMBOK Guide 7th edition in the Onikin style-

Lecturer: JSPE Director Ryogo Honda PE, PMP®

JSPE Member Takeya Kawamura PE, PMP®

JSPE Member Hiroshi Suzuki PE, PMP®

The 3rd Onigane CPD Seminar was held on Saturday, December 11, 2021.

This seminar will address the significant shift in the 7th edition of the PMBOK® Guide published at the end of July this year from the five process groups (up to the sixth edition) to the 12 new Principles standards. Three members of the Onikane Branch of the JSPE Education Subcommittee, who collected information and read the 7th edition, gave a lecture on the following contents.

- ① The background of such a change in pmbok® guide 7th edition (JSPE director, Honda)
- ② PMBOK® Guide 7th Edition Overview, Analysis and Comparison with ISO 21502 (JSPE Member, Kawamura)
- ③ Deep dive into key key terms in pmbok® guide 7th edition (JSPE member, Hiroshi Suzuki)

In the second half of the discussion, participants expressed the opinion that they wanted to study more practical project management, and "PMBOK has become difficult with each revision. Opinions such as "I want a study session that makes it easier to understand even beginners" and "I want a study session that even beginners can understand project management" were expressed. Through this seminar, I feel that many JSPE members are interested in project management.

【Event Implementation Report】

【JSPE Day 2021 Day1】

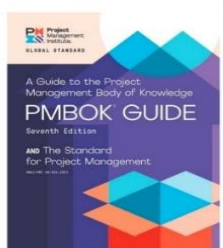
Date: Saturday, October 23, 2021

Location: Zoom

JSPE 鬼金CPD2021

本日の概要

- 今年7月末に発行されたPMBOK Guide 第7版は、プロジェクトマネジメント標準が、
・従来の5つのプロセス (Process group) から
・新たに12の原則 (Principles) に大きな転換が行われています。
- 本日はこの大きな転換があったPMBOK Guide 第7版について、JSPE教育部会の鬼金分会メンバー有志3名が、
・転換の背景
・概要
・重要キーワード
の3つの視点で順に紹介します



PMBOK® Guide 7th edition
(出典元) PMI Inc., ホームページ

2021/ 12/ 11(Sat)

Participation: < Web viewing >49 (PE43, PEN6 people)

Title: Driving support and human watching by image recognition

Lecturer: Prof. Hiroshi Murase, Professor Emeritus and Specially Appointed Professor, Nagoya University

In Day 1, two keynote speeches and lectures by member lecturers were given. In the keynote speech, Professor Hiroshi Murase, Professor Emeritus and Specially Appointed Professor of Nagoya University, was invited as a lecturer to give a lecture on the theme of "Driving support through image recognition and watching over people". I think many people first learned about how humans perceive things when they take action and the importance of driver assistance functions based on cognitive mechanisms. I felt the development of image recognition technology and the importance of research currently being conducted in that image recognition can be applied not only to driver assistance but also to various aspects of life. In Lecture 1, Ishihama members provided unique topics such as the application of AI to sea floating garbage disposal. I was impressed by the fact that open innovation is effective in developing technologies such as autonomous driving. In Lecture 2, Ishii members introduced their efforts to make smart factories at their workplaces. I was able to learn that DX and IoT are not something that can be done immediately, but that steady work is essential.

【JSPE Day 2021 Day2】

Date: Saturday, October 30, 2021

Location: Zoom

Participation: < Web viewing >42 (including 38 PE, 3 PEN, 1 non-member, lecturer)

In Day 2, two lectures were given by member lecturers. In Lecture 3, Suzuki explained the analysis contents of what hinders the spread of BIM /CIM. It was thought that the multilayered structure, which can be said to be a feature of the Japanese construction industry, was the cause of the loss of the total perspective of top companies that should consider total systems. In Lecture 4, Baba members gave lectures from their employers in Germany, and explained the outline of Industrie 4.0 and the contents of the open close strategy. I was impressed by the explanation that it is necessary to indicate the use case as a link between standards and mission and sense of purpose, and only engineers can analyze use cases.

[PE/FE examination registration consultation]

Date: Saturday, October 3, 2021

Location: Web (Zoom)

Participation: < Web viewing > 15 (4 PEN members, 1 FE, 2 non-members, PE members, 8 directors on the organizer side)

After JSPE 2021 (Day 2), it was held remotely. In the past, the pe system outline and the explanation of registration advice activities were conducted at the beginning of the consultation meeting, but this time these explanations were delivered slides and their explanations in advance and viewed. On the day of the consultation meeting, individual consultations were mainly held divided into two groups. After passing the PE exam, we received consultations about state registration and FE and PE exams.

In recent years, this consultation meeting has been held in March. It's been a long time since it was held in autumn on the same day as JSPE Day.

【CPD Seminar】

Please check the following URL for the latest information on this year's events.

<https://www.jspe.org/events/>

2022年1月1日	土	-	JSPEマガジン冬号配信	会員にメール通知	広報部会 public.2007@jspe.org
2022年1月8日	土	10:30-12:00 13:00-14:30	関東技術施設見学会	旧三河島污水処分場唧筒場	教育部会 education.2007@jspe.org
2022年1月15日	土	9:30-12:00	1月度理事会	東京・TBD/Zoom	事務局 webmaster@jspe.org
2022年1月19日	水	19:00-21:00	エンジニアズサロン (4)	関西TBD, 関東TBD/ Zoom	教育部会 education.2007@jspe.org
2022年1月29日	土	13:00-15:45	鬼金セミナー (5)	関西TBD, 関東TBD/ Zoom	教育部会・鬼金分会 rep@jspe.org
2022年2月5日	土	10:00-12:00	技術CPDセミナー	関西TBD, 関東TBD/ Zoom	教育部会 education.2007@jspe.org
2022年2月19日	土	13:00-15:45	鬼金セミナー (6)	関西TBD, 関東TBD/ Zoom	教育部会・鬼金分会 rep@jspe.org
2022年3月5日	土	10:00-12:00	技術CPDセミナー	関西TBD, 関東TBD/ Zoom	教育部会 education.2007@jspe.org
2022年3月12日	土	9:30-12:00	3月度理事会	東京・TBD/Zoom	事務局 webmaster@jspe.org
2022年3月16日	水	19:00-21:00	エンジニアズサロン (5)	関西TBD, 関東TBD/ Zoom	教育部会 education.2007@jspe.org
2022年3月26日	土	14:00-17:00	FY2021PE/FE受験・登録相談会	関西TBD, 関東TBD/ Zoom	会員部会 membership.2007@jspe.org

* In light of the impact of coronavirus, we will adjust and implement the schedule.

【Technical CPD Seminar】

< Kanto Technical Facility Tour >

Saturday, January 8, 2022

< The 4th Engineers Salon >

Date: Wednesday, January 19, 2022

< The 340th Onigane CPD Seminar >

Date: Saturday, January 29, 2022

< The 341st Technical CPD Seminar >

Date: Saturday, February 5, 2022

< The 342nd Onigane CPD Seminar >

Date: Saturday, February 19, 2022

< The 3rd Onigane CPD Seminar >

Date: Saturday, March 5, 2020

< 5th Technical Engineers Salon >

Date: Saturday, March 16, 2022

< FY2021 PE/FE Examination and Registration Consultation >

Date: Saturday, March 26, 2022

[Board Meeting]

【January Board of Directors】

Date: Saturday, January 15, 2022

[March Board of Directors]

Date: Saturday, March 12, 2022

Name: Hideki Hasegawa

S/Membership number: PEN-0223

Qualifies: Master's degree (engineering)

Passed the first professional examination (Machinery Division): 2015/12

FE exam: 2015/2

PE exam: 2021/7

* Specialized field: Mechanical engineering

Motivation for joining: Collecting information on interaction with engineers and PE registration

S/Introduction: I work for a machine manufacturer and am involved in production technology work. I had the opportunity to learn about PE licenses when I was a student, and since then I have continued to study myself with the aim of acquiring them. In our activities, we would like to not only collect information on PE registration, but also expand further knowledge and experience as engineers through exchanges with everyone. Thank you very much.

What JSPE wants: Providing a place for interaction



Name: Mitsuo Nakamura

Membership number: AF-0114

Contitlement qualification: Energy manager (electricity), type 3 elect

Specialized field: Electricity

Motivation for joining: Gathering information on FE and PE exams

Self-introduction : I am currently in charge of managing and updating and HVAC at the Foreign Embassy in Japan.

I spent more than 20 years in the semiconductor industry after I was in charge of software and circuit design at a manufacturer that I joined as a new graduate. Since I was involved in the communication system in the first half of the carrier and the power semiconductor in the second half, I may have visited your company.

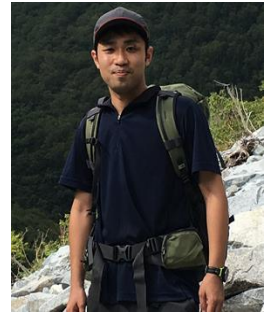
What jspe wants:

The contents of the membership magazine including the pass experience record are very substantial and helpful. Thank you for your continued support.



Name: Shota Minami
Membership number: PE-0310

Qualifications: PE (Mechanical, Texas)
Specialized in: Mechanical, Thermal and Fluid Systems
Motivation for joining: Exchange with external engineers and networking

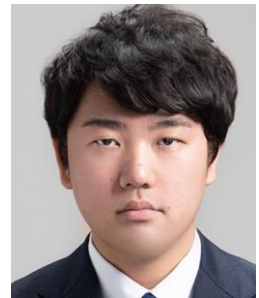


S/Introduction: I'm involved in the design of plant equipment at a chemical manufacturer. In the midst of opportunities to work abroad, I want the engineer in my hand to recognize my experience and knowledge level, and I acquired a PE qualification.
other. Interact with various external engineers and deepen your insights as engineers. we are thinking about this. Thank you very much.

What JSPE wants: We would appreciate it if you could provide an opportunity for members to interact and exchange information.

Name: Keiu Koshikawa
Membership number: ST-0022
Qualification: None
* Specialized field: Civil engineering
Motivation for joining: I was somehow interested
Symn introduction : Thank you
What jspe wants: Increase the visibility of PE.

Name: Yushi Koga
Number : PEN-0225
Qualities: Chemical engineer (basic), dangerous goods handler (class A),
High-pressure gas manufacturing safety officer
(type A machine),
Pollution control manager (water quality type 1),
type 2 electrician



* Specialized field: Chemical engineering
Motivation for joining: Collecting information for PE registration, interacting with external engineers, and self-improvement through activities at JSPE
S/Introduction: I was engaged in process design work for 4 years at a chemical manufacturer. I currently work as a plant engineer at a food manufacturer. As an engineer who protects food, I was interested in PE, which requires not only engineering technology but also a high level of ethics. In addition to aiming for PE registration in the future, I would like to grow as an engineer who can play an active role globally through activities at this society. Best regards.

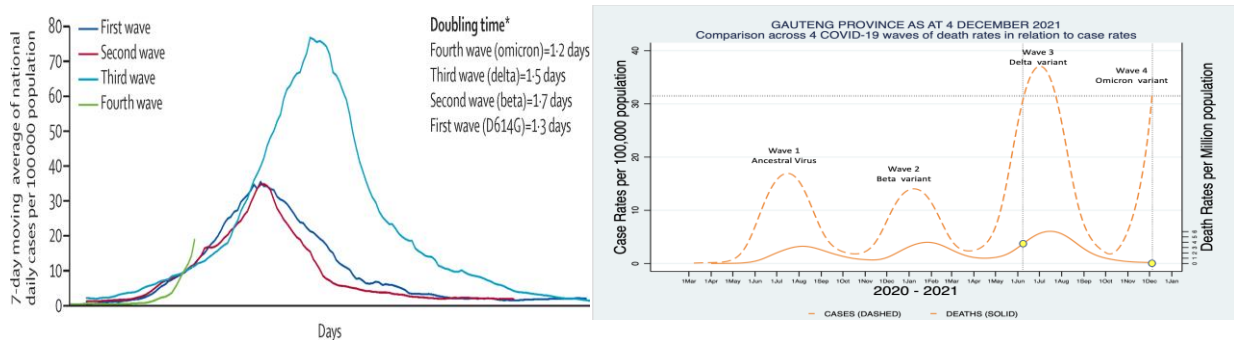
What JSPE wants: PE registration support, provision of exchange opportunities between members, provision of CPD seminars

14 Postface

While the situation of Omicron strain, a new mutant of the novel coronavirus, is being heard every day, I analyzed the current situation although biology is not specialized in order to judge as one engineer instead of being danced by information.

(1) Is the infection of Omicron strain really strong?

According to the change in the number of infected people per million population, it can be said that the number of infected Omicron strains is 1-2 days before the number of infected Omicron strains doubles, which is nearly twice as infectious as that of conventional delta strains for 1-5 days. As a result, it can be expected that more infected people will occur at the peak of the infected person in the future. The fact that the number of infected people doubles in a 1-2 day cycle is increasing at the next moment even if the exact number of new infected people is grasped. It doesn't make much sense.

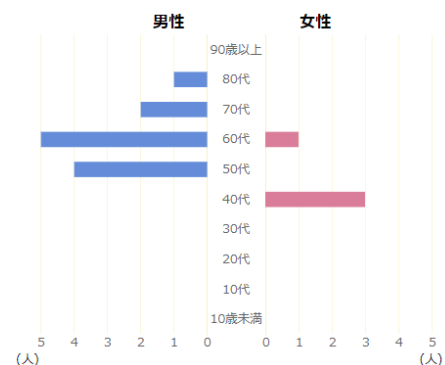


(2) Is the severity and mortality rate clearly dangerous?

Compared to the number of deaths per million people, delta strains tend to increase with increasing infections. Omicron strains have a short data period and may change in the future, but until now there has been no significant change, and it is on a downward trend. This trend is the same in Japan, and according to the data of the Ministry of Health, Labour and Welfare in the right, the most recent December seriously injured 40-50 People/day, all of which are in their 40s or older. The number of deaths is about 30 people per month, but it is about 1/10 compared to about 200 people per month of traffic accidents. Given the increase in mortality due to aging, it is not a clear danger that exceeds other causes of death at this time.

性別・年代別重症者数

情報更新日(週次) : 2021年12月21日



It is considered from limited data, but it can be said that the strength of engineers is that you can analyze and make decisions by yourself based on the given data.

December 27, 2021
Tokoh Nishikubo
(Editor-in-Chief)

Please contact the Public Relations Subcommittee public.2007@jspe.org for any questions, suggestions, or contributions you may have noticed.

【Editorial Board】

Nishikubo (Editor in chief)

Inaba (Board of Directors Topics, Report on CPD Seminar, Coming Events)

Sato (Variables from PEaple)

Fujimura (PE registration and renewal, FE/PE exam experience, introduction of new members)

Kanno (Ethics)

Hirose (Ethics Reviewer)

Moriyama and Ito (editing in general)

◇Handling of personal information in this magazine

The personal information posted is disclosed only in this magazine based on the consent of the person. It is strictly prohibited for third parties to use them for other purposes or post them without permission, but if you are thinking of using them for educational purposes, please contact the Public Relations Subcommittee.