

經費來源：01 公務 02 非公務

機密(E)：是 否

出國類別： A 考察/訪問 C 進修/研究 F 工作會議/研討會
 G 推廣佈展 H 學術會議

分項計畫名稱：結構耐震技術研發

**International Conference on
“Intraplate and Himalayan Seismology: Developments in the
Last 25 Years”
and
9th Annual Convention of “Advances in Earthquake Science”**

出國報告書

服務單位：財團法人國家實驗研究院國家地震工程研究中心

出國人姓名職稱：Vivek Walia 研究員

出國地點：印度

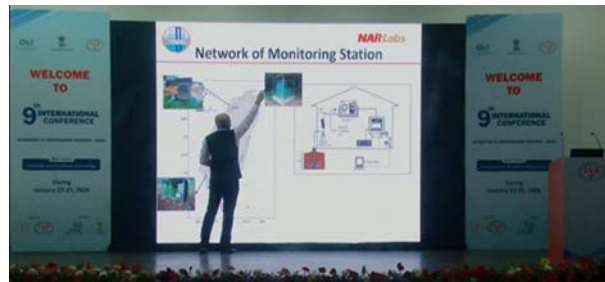
出國日期：民國 115 年 01 月 21 日至 115 年 02 月 18 日

報告日期：民國 115 年 03 月 04 日

摘要

I visited India from January 21 to February 18, 2026. During this period, I attended and presented at the International Conference on *Intraplate and Himalayan Seismology: Developments in the Last 25 Years*” and *9th Annual Convention of “Advances in Earthquake Science,”* held in Gandhinagar, Gujarat, from January 22 to 28, 2026.

As part of the conference program, I delivered an invited oral presentation titled *“Radon Monitoring Data in Taiwan: A Statistical Perspective for Investigating Earthquake Precursors”* on January 23, 2026. I also *co-chaired Session 1 alongside Dr. Prantik Mandal*. The conference commenced with a one-day training workshop on January 22, followed by a three-day field excursion (January 26–28) to the Kachchh–Bhuj earthquake region, providing valuable insights into the tectonic and seismological characteristics of this historically significant area.



In addition to participating in the conference, I visited the Department of Physics at Guru Nanak Dev University from February 2 to 6, 2026. During this visit, I met with the Head of the Department and other faculty members

to discuss academic and research collaborations. *I delivered an invited lecture titled “Earthquake Prediction and Mapping”,* organized by the Department of Computer Science in collaboration with the Departments of Computer Science, Town Planning, Architecture, and Physics. The lecture was attended by faculty members and students from multiple disciplines. I also provided academic guidance to master’s and PhD scholars and discussed recent developments in earthquake precursory research and data-driven methodologies.

Furthermore, I held meetings with our collaborators, Prof. Preeti Kamra from DAV College and Mr. Rishabh Bhasin, to review progress and discuss our ongoing collaborative projects. I also delivered *another invited talk titled “Using AI in the Prediction of Earthquakes”* at the Department of Physics, DAV College, Jalandhar where I shared recent advancements in applying artificial intelligence techniques to seismic data analysis.





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During the remainder of my stay (February 9–16, 2026), *I visited my PhD supervisor, Prof. H. S. Virk*, and met with other professors and colleagues in different parts of India to strengthen professional relationships and explore future research opportunities. This portion of the trip was undertaken as personal leave.

Overall, my participation in the conference and associated academic visits provided valuable opportunities for professional interaction, knowledge exchange, and the development of new research collaborations. Engaging with researchers and scholars from diverse institutions significantly broadened my research perspective and enhanced my understanding of emerging methodologies in seismology and earthquake precursor studies. These interactions are expected to contribute positively to the advancement of our ongoing research projects and to foster future international collaborations.

活動日程表

國別	日期	地點/訪問機構	工作摘要/接待人員
India	1/21-1/22	Taipei→ Gandhinagar, Gujarat	Travel
	1/22 to 1/28	International Conference on “Intraplate and Himalayan Seismology: Developments in the Last 25 Years” and 9th Annual Convention of “Advances in Earthquake Science”	Present our research work and attend the conference, workshop and field trip
	1/29	Gandhinagar→ Delhi	Travel
	2/2 to 2/6	Guru Nanak Dev University, Amritsar and DAV College, Jalandhar	Had meetings, Given two invited talks, interaction with students. Travel to Amritsar, Jalandhar
	2/9 to 2/13	Personal Leave	Meet my PhD Professor
	2/17-2/18	Delhi→Taipei	Travel

註：活動日程表以「日」為單位填寫，惟出國派訓得以「週」為單位。

目 次

1. 目的.....	1
2. 參訪(或進修、研究、工作會議及會議....)紀要	1
3. 心得及建議.....	2
4. 出國效益.....	2
附錄：.....	2

1.目的

1.1 I participated and presented our work at “International Conference on

“Intraplate and Himalayan Seismology: Developments in the Last 25 Years” and 9th Annual Convention of “Advances in Earthquake Science, which was held at Gandhinagar, Gujarat, Indian from January 22 to 28, 2026.

1.1.1 I gave presentations an Invited talk on our research work entitled "**Radon Monitoring Data in Taiwan: A Statistical Perspective for Investigating Earthquake Precursors**" in the session-1 on January 23 2026

1.1.1.1 During the conference, I attended different sessions and interacted with the researchers from different countries

2.參訪(或進修、研究、實習及會議..)紀要

2.1 I presented our research as an invited at the conference. In addition to presenting our work, *I co-chaired Session 1* alongside Dr. Prantik Mandal. I actively participated in several sessions, attended numerous talks, and explored various poster presentations. In particular, I gained valuable insights from sessions highlighting emerging approaches, especially the application of machine learning techniques to earthquake occurrence analysis and forecasting. The discussions on data-driven modeling, pattern recognition, and integrative frameworks for seismic hazard assessment were especially informative and closely aligned with our ongoing research

2.1.1 The Conference convenes geoscientists from around the world in a comprehensive, interdisciplinary forum spanning all branches of Earth, planetary, and space sciences. It provides a vibrant platform for researchers especially early-career scientists to present their work, foster meaningful scientific dialogue, and exchange innovative ideas with leading experts across the full spectrum of geosciences.

2.1.1.1 I had engaging and productive discussions with researchers from various regions of the world during my presentation session as well as in several other sessions of interest. These interactions provided valuable insights, constructive feedback, and opportunities for potential future collaborations.

3.1 Attending such conferences is immensely valuable, as they offer important opportunities to network with fellow researchers, engage in insightful discussions on shared research interests, exchange ideas, and foster potential collaborations for future work

3.1.1 It also provides a valuable platform to both contribute to and stay informed about the latest advancements in our field, as well as developments in related areas of interest

3.1.1.1 Additionally, conferences provide a valuable platform for in-depth discussions of research data and findings, enabling more refined interpretations and often inspiring new ideas that can further advance our work

4.出國效益

4.1 The conference provided an excellent platform to present our research at the international level and significantly contributed to enhancing the quality, visibility, and impact of our work.

4.1.1 Engaging in discussions with researchers from both related and interdisciplinary fields proved highly valuable. These interactions offered insights into the latest developments within our domain as well as emerging trends in allied disciplines, which will play a crucial role in refining and advancing our future research directions.

4.1.1.1 Furthermore, the conference facilitated opportunities for potential international collaborations, which will support the continued growth, innovation, and global relevance of our research activities

附錄(ps.指攜回資料): USB drive and Momentum from the conference

國家實驗研究院因公出國人員出國報告建議事項追蹤表

類 別	出 國 報 告 建 議 事 項 (報告人填寫)
<input type="checkbox"/> 採 納 (辦理期限 年 月 日) <input checked="" type="checkbox"/> 參 考 <input type="checkbox"/> 應修正	1. I attended and presented our work at “International Conference on Intraplate and Himalayan Seismology: Developments in the Last 25 Years” and 9th Annual Convention of “Advances in Earthquake Science,” held at Gandhinagar, Gujarat, from January 22 to 28, 2026. I also visited the Department of Physics at Guru Nanak Dev University from February 2 to 6, 2026. Participating in such conferences and visits plays a crucial role in enhancing our knowledge and fostering collaboration within the geoscience community.
<input type="checkbox"/> 採 納 (辦理期限 年 月 日) <input checked="" type="checkbox"/> 參 考 <input type="checkbox"/> 應修正	2. International conferences and visits offer invaluable opportunities to connect with researchers globally, promoting collaboration and the exchange of insights that greatly benefit our research efforts. These kind of visits not only enhance our skills but also inspire new perspectives, providing innovative ideas for data interpretation and advancing our work.
<input type="checkbox"/> 採 納 (辦理期限 年 月 日) <input checked="" type="checkbox"/> 參 考 <input type="checkbox"/> 應修正	3. Visits like these provide valuable opportunities for fostering collaboration and building strong partnerships for the future.
<input type="checkbox"/> 採 納 (辦理期限 年 月 日) <input checked="" type="checkbox"/> 參 考 <input type="checkbox"/> 應修正	4. Visits like these provide valuable opportunities to stay updated on the latest innovations and cutting-edge technologies in research.
<input type="checkbox"/> 採 納 (辦理期限 年 月 日) <input type="checkbox"/> 參 考 <input type="checkbox"/> 應修正	5.

直屬主管或計畫主持人

報告人: *Vivell W. L.* 直屬主管/計畫主持人: *吳俊霖* 副主任: *柴明輝* 主任: *Eu*

- 註：一、本表請詳填後併同報告書處理。
 二、勾選採納時須填列辦理期限。
 三、本表若不敷使用，請自行複製使用。