



**UTM**  
UNIVERSITI TEKNOLOGI MALAYSIA

# **Ibnu Sina Institute**

## **for Scientific and Industrial Research**



**Yearbook 2020**

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# 1

## Director's message

It is my honor and privilege to receive the opportunity to lead this institute. I was extraordinarily fortunate to pursue my career at UTM.

Goal setting is an essential part of institutional planning and needs to be set in every process, so we have a commitment to achieve great results. It needs to be done with optimism and joy, which is referred to as the joy of goal setting based on guiding principles. Likewise, this means that it is more fun to chase the target, rather than being chased. The message is clear that everyone should have ambitions; hence, we should determine the direction of our institution. There may be people who do not take care of goals, but someday that person must make decisions to determine their future. Every institution is required to understand its strengths and weaknesses.

Ibnu Sina Institute, shaped by the past as a leading center of fundamental science studies, is rapidly expanding its contribution to a truly multidisciplinary endeavor across the mathematical, physical and social sciences to technologies and the humanities that will benefit society on a national and global scale thus creating the future. Ibnu Sina Institute aims to maximize the benefits of research by advancing fundamental knowledge and beyond to contribute to better public policy, economic prosperity, social cohesion, community identity, and the quality of life.

I very much look forward to working with all of my colleagues as we collectively enhance and realize the full capacity and potential of Ibnu Sina Institute, which is poised to reach much greater heights.

**Prof. Dr. Hadi Nur**



Strive for  
excellence  
through  
scientific and  
industrial  
research

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Ibnu Sina Institute for Scientific and Industrial Research (ISI-SIR)  
Universiti Teknologi Malaysia

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# 2

## About us

“The knowledge of anything, since all sins have causes, is not acquired to complete unless it is known by its causes.”

– Ibnu Sina

“ Ibnu Sina Institute for Scientific and Industrial Research (ISI-SIR) was founded in 1997, and we have made **history**. At ISI-SIR, expanding the boundaries of knowledge through a genuinely multidisciplinary endeavour across the **mathematical, physical, and social sciences to technologies and the humanities** is a noble task to contribute to society on a national and global scale, thus creating the future. The **staff and students** of ISI-SIR look forward to seeing how things work and inspired to make them work better. Our **philosophy and strategic planning** are to encourage real-world engagement and appreciation for the ISI-SIR **entrepreneurship** ecosystem.

## 2020 facts and figures

6	4	6	18	36	27
Research Centre	Spin-off Company	Professor	Associate Professor	Senior Lecturers and Lecturer	Research Officers and Support Staff
1997	79	40	25	58	1,276
Year of establishment	Seminar series organised by institute since 2008	H-index of publications based on Google Scholar® (data as of 17 January 2020)	Subject area based on publications indexed by Scopus® (data as of 17 January 2020)	Average number of yearly publications based on Scopus® (data as of 17 January 2020)	Publications indexed by Scopus® (data as of 17 January 2020)

# ISI-SIR

Ibnu Sina Institute for Scientific and Industrial Research (ISI-SIR), shaped by the past as a leading centre of fundamental science studies, is rapidly expanding its contribution into a truly multidisciplinary endeavour across the mathematical, physical and social sciences to technologies and the humanities that will benefit society on a national and global scale thus creating the future. Under the current leadership, Ibnu Sina Institute aims to maximise the benefits of research by advancing fundamental knowledge and beyond to contribute to better public policy, economic prosperity, social cohesion, community identity, and the quality of life. The role of Science and Technology in the industry and society are key themes of the institute. Powered by leading experts, Ibnu Sina Institute coordinates and aligns the resources towards multi and inter-disciplinary research activities through creativity and innovation supported by strategic partnerships with key universities and industries. Together, Ibnu Sina Institute is embarking on vital research relevant areas: Advanced Functional Materials for Green Technology; Green Separations Science and Technology; Laser Technology; Engineering & Industrial Mathematics; Big Data Computing and Engineering; Oleo Chemical and Lipid Engineering; Halal Science & Islamic Jurisprudence. Building on an excellent foundation, Ibnu Sina Institute is now driven by 6 Research Centres that merged to capitalise expertise that will substantially influence the society in the coming years. Ibnu Sina Institute brings together researchers and experts from multidisciplinary backgrounds that span several traditional sciences and engineering disciplines in-line with UTM's aspiration to be a world top 50 research-intensive university. These Research Centres are responsible for promoting and engaging research actively; development, consultancy, and training activities in their expertise areas, addressing Ibnu Sina Institute and geared to contribute to the University, Industry, Society, and the Country.

## Research centres

With six established Research Centres, ISI-SIR brings together researchers and experts from inter-disciplinary backgrounds that span several traditional sciences and engineering disciplines in-line with UTM's aspiration to be a world top 50 research-intensive university. These Research Centres are responsible for actively promote and engage research & development, consultancy, and training activities in their expertise areas, addressing ISI-SIR and geared to contribute to university, industry, society, and country. All research centres (RC) translate ISI-SIR's identity and uniqueness. There are six RCs of various fields from fundamental sciences to chemical engineering sciences, as well as strengthen Islamic policies and applications. The merger of all RCs within ISI-SIR is seen as one of UTM's initiative to broaden and enliven the application in research.

<b>CSNano</b> Centre for Sustainable Nanomaterials	<b>Laser</b> Laser Centre	<b>UTM-CIAM</b> UTM Centre for Industrial and Applied Mathematics
<b>CLEAR</b> Centre of Lipids Engineering and Applied Research	<b>CFIRST</b> Centre for Fiqh Research in Science and Technology	<b>UTM-BDC</b> UTM Big Data Centre

# 2.1

## Guiding principles

“That whose existence is necessary must necessarily be one essence.”

– Ibnu Sina



### **Ibnu Sina (980 – 1037)**

According to his autobiography, Ibnu Sina had memorised the entire Quran by the age of 10. He learned Indian arithmetic from an Indian greengrocer, Mahmoud Massahi and he began to learn more from a wandering scholar who gained a livelihood by curing the sick and teaching the young.

### **Guiding principles**

Ibnu Sina Institute Guiding Principles is the philosophy used as the basis of institute operations, which includes the values that guide the institute to achieve its intended goals using appropriate strategies. They create a work culture where everyone understands the things that are important to be done and made.

### **Philosophy**

The divine law of Allah is the foundation of knowledge. In line with His Will, UTM strives with total commitment to attaining excellence in science, technology, and engineering for the well-being and prosperity of mankind.

### **Vision**

To be a world-class research institute through fundamental and applied science research

### **Mission**

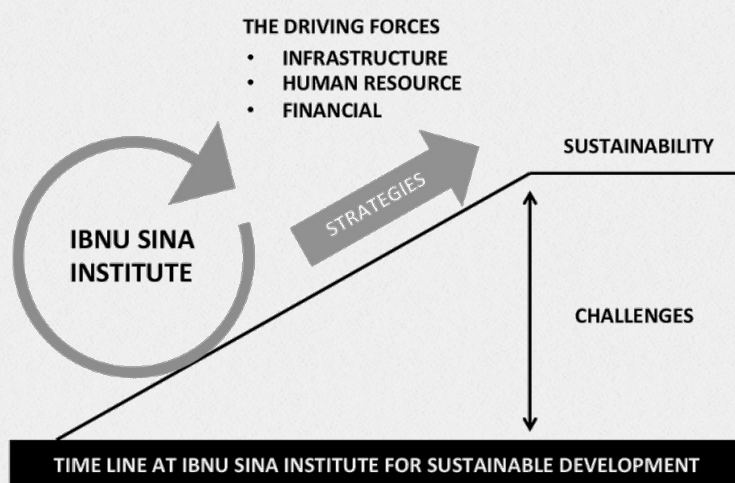
To lead the advancement of knowledge through frontier mathematics, science, and applied science research

## Founding principles

- Academic leadership
- Integration of research and education
- A cross-disciplinary approach to address the global challenges
- An accessible publicly-engaged organization
- Financial sustainability
- Employee engagement with happiness

## ISI-SIR towards sustainability

The ISI-SIR transformations towards ISI-SIR sustainability go beyond assessing and implementing current responses to university needs. It will consider the more fundamental and innovative long-term transformations that are needed to move towards an ISI-SIR sustainable future. Future ISI-SIR will involve the development in terms of its infrastructure, human resource, and financial sustainability. This might include significant shifts in changes in institutional structures.

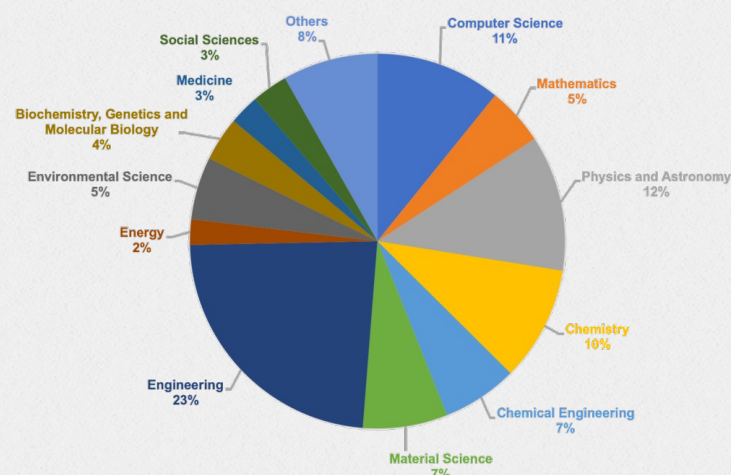


## SWOT analysis



## ISI-SIR research area

With six research centres, the diversity of research areas from engineering to environmental sciences exhibits the strength, capability, and potential in research and development. As strong as the technical background in UTM, ISI-SIR also supports other areas of research and studies such as mathematics, physics, and astronomy, as well as computer sciences. The multidisciplinary work team is significant to sustain research culture in



Source: [www.scival.com](http://www.scival.com)



# 2.2

## Strategic planning

“They plan, and Allah plans. Surely, Allah is the Best of planners.”

– Surah An-Anfal [8:30]

Our philosophy and strategic planning are to encourage real-world engagement and appreciation for ISI-SIR entrepreneurship ecosystem.

Strategic planning is an organisation’s process of defining its strategy, or direction, and making decisions on allocating its resources to pursue this strategy. Based on this definition, ISI-SIR has released 2020 strategic planning based on six founding principles. A strategic planning workshop was held at Forest City Golf Resort on 10-11 March 2020.



## Academic leadership

Attract, retain and cultivate intellectual leaders across the full range of subject areas – and from a diverse range of backgrounds – seeking those who combine a deep commitment to their own discipline(s), openness to work across disciplines in research, education and for societal benefit, and the ability to determine their own intellectual direction.

### Initiatives

- Build ISI-SIR blueprint for internal strategic and operational planning processes and develop high-quality information that allows us to have a clear understanding of our performance at a local, national and global levels
- Explore how we can create and/or integrate new disciplinary activities for UTM

### Implementations

- Develop ISI-SIR research blueprint
- Collaboration with the top researchers/scientists to establish high impact research Proposal workshop involving all research centres under ISI-SIR to apply for national and international research grants
- Collaboration with Huawei Each research centre suggests the research area wants to lead
- Ibnu Sina Institute award and fellowship Stingless Bee High Impact Research

## Integration research and education

We will inspire our students at every level – undergraduate (UG), postgraduate taught (PGT) and postgraduate research (PGR) – and equip them with the knowledge and skills that they need to contribute significantly to society and be leaders of the future in their chosen field and profession. All our students and staff will be seen as collaborative members of our university community, with a shared interest in the future of ISI-SIR.

### Initiative

- To create a platform for students and postdoc under ISI-SIR so that they can improve their abilities in education, research, and entrepreneurship.

### Implementations

- To create a complete student and postdoc database of ISI-SIR.
- To establish a student chapter of ISI-SIR under Postgraduate Students Society UTM (PGSSUTM).

## **A cross-disciplinary approach to address the global challenges**

Global challenges can only be addressed by cross-disciplinary initiatives that bring together science, technologies and the humanities. We must cross these boundaries.

### **Initiatives**

- Networking with universities and industries through a strategic partnership
- Create a platform to work with universities, industry, and government

### **Implementations**

- Establishment of Malaysian Zeolite Association (Research centre in charge: CSNano)
- Establishment of Stingless Bee International Association (Research centre in charge: CLEAR)
- Establishment of the Malaysia Nanosafety Policy (Research centre in charge: CSNano)
- Collaboration with the National Nanotechnology Centre (Research centre in charge: CSNano)

## **An accessible publicly-engaged organization**

We will inspire our students at every level – undergraduate (UG), postgraduate taught (PGT) and postgraduate research (PGR) – and equip them with the knowledge and skills that they need to contribute significantly to society and be leaders of the future in their chosen field and profession. All our students and staff will be seen as collaborative members of our university community, with a shared interest in the future of ISI-SIR.

### **Initiatives**

- Engagement with the mainstream and alternative media
- Communicate activities through the website
- Engagement with community

### **Implementations**

- ISI-SIR response to the current issue in the form of opinion by experts
- Appoint webmaster
- Engagement with the rural community through activities of students
- ISI-SIR seminar series

## Financial sustainability

An organisation's capacity to obtain revenues in response to a demand in order to sustain productive processes at a steady or growing rate to produce results and obtain a surplus.

### Initiative

- Open new business opportunities to be able to contribute to the entrepreneurship ecosystem of ISI-SIR.

### Implementation

- Synergizing spin-off companies under ISI-SIR to move more efficiently and open up new business opportunities.

### Spin-off companies

- CSNano Technologies Sdn Bhd
- MyHIMS Solutions PLT
- HA Southern Global Sdn Bhd
- Synapse Innovation Sdn Bhd

## Employee engagement with happiness

Employee engagement is the extent to which employees feel passionate about their jobs, are committed to the organization, and put discretionary effort into their work. Happiness at work is the extent to which employees feel good about their jobs.

### Initiative

- Activities in sports, spirituality, and family organised by Badan Kebajikan Institut Ibnu Sina (BAKSIIS).

### Implementations

- Liga santai bina minda: "Enta Datang, Ana Cakap" setiap bulan oleh CFIRST.
- Ceramah mengenai fiqh wanita dambaan surga oleh Prof. Dr. Farahwahida Mohd Yusof
- Yuran BAKSIIS (RM 20 setahun)
- Bowling and family gathering

# 2.3

## History

“Our history is rich and inspiring. Immerse yourself in our past and see into our future.”



### **Directors of Ibnu Sina Institute since 1997**

Prof. Dr. Mohamad Rashidi Md Razali (1997-1998) | Prof. Dr. Halimaton Hamdan (2000-2006) | Prof. Dr. Mohd Marsin Sanagi (2007-2011) | Prof. Dr. Mustaffa Shamsuddin (2011-2015) | Prof. Dr. Mohd Marsin Sanagi (2015-2016) | Prof. Dr. Abdull Rahim Mohd Yusoff (2016-2018) | Prof. Dr. Hadi Nur (2018-present)

1997



24 April 1997

## Beginnings

A working paper was submitted to the Executive Committee, UTM by the Office of Corporate Affairs to establish an interdisciplinary research institute in fundamental sciences. Ten potential research areas have been listed in working paper ranging from Astronomical Science, Theoretical and Condensed Matter Physics, Catalyst Study, Nuclear Physics, Acoustic and Optical Physics, Solid State Physics, Genetic & Molecular Biology, Materials Science, Computational Mathematics & Statistics. However, there was one research area added to it handwritten (most possibility during the meeting) which was History and Philosophy of Science. In the end of the working paper, it was suggested that naming the institute as “Ibnu Sina Institute for Fundamental Science Studies (IIS)” in honor of Abu Ali Al Huysayn Ibn Abd Allah Ibnu Sina (Avicenna) (980-1037), one of the foremost philosophers and scientists in the Medieval Hellenistic Islamic tradition. Ibnu Sina’s achievements as a scientist and philosopher are without parallel. He wrote two most famous works, the Kitab ash-shifa (“Book of Healing”) and the al-Qanun fi at-tibb (“Canon of Medicine”). It is also proposed that the Institute will be put under management of Faculty of Science. Faculty also plays a role to coordinate human resource development and scientific instruments at university level so that the institute can be act as interfaculty and interdisciplinary center. Subsequently, a proposal for organization structure and activities at Ibnu Sina Institute for Fundamental Science Studies (IIS) was drafted. It first revealed that meeting of Executive Committee of the university which took place on 24 April 1997 was agreed to approve the establishment of Ibnu Sina Institute for Fundamental Science Studies. Furthermore, the institute was responsible to coordinate and facilitate all fundamental science researches at UTM. It also suggested that the organizational structure consists of Director, Deputy Director and four laboratories coordinators.

7 May 1997

## First meeting

First letter issued calling for the first meeting of the committee to establish Ibnu Sina Institute for Fundamental Science Studies (IIS) chaired by the Deputy Dean of Faculty of Science, Prof. Dr. Mohamad Rashidi Md. Razali. It really shows that our IIS 'forefather' always feels the importance of the element of 'philosophy of science' for the institute by inviting staff from Centre for Islamic Studies and Social Development for its first meeting.

20 May 1997

## A memo

A memo was received from Centre for Islamic Studies and Social Development which listed seven of their staff who supposed to work in History, Philosophical Science and Technology at Ibnu Sina Institute for Fundamental Science Studies.

1 June 1997

## First director



Prof. Dr. Mohamad Rashidi Md Razali was appointed as the first Director of Ibnu Sina Institute for Fundamental Science Studies (IIS).

11 June 1997

## Einstein laboratory

Einstein Gravitational-Wave Laboratory meeting on Einstein Laboratory and research on gravitational wave took place at Vice-Chancellor Office. The Chairman of the meeting (Datuk Dr. Ahmad Zaharudin Idrus, Vice-Chancellor of UTM) asked IIS to appoint internationally renowned visiting scientists, visiting professors and contract professors. Einstein Laboratory and gravitational wave research was the backbone of IIS.

14 June 1997

## Laser interferometer



Universiti Teknologi Malaysia (UTM) received 100-m DL laser interferometer (TENKO-100) for

gravitational wave detection which worth RM 16 million from Institute of Space and Astronautical Sciences (ISAS), Japan.

19 June 1997

## Contract professors

UTM appointed three contract professors under three different faculties to work with IIS. Prof. Nizar M. Sharif (Faculty of Computer Science and Information System), Prof. Liping Xu (Faculty of Mechanical Engineering) and Prof. Sergei Tochitsky Yakovlevich (Faculty of Science). Following the meeting on the 11 June 2007 grand support from the University to IIS was in place.

20 June 1997

## Dato' Seri Mohd Najib Abdul Razak

The Einstein Laboratory was officially inaugurated at Dewan Sultan Iskandar by Dato' Seri Mohd Najib Tun Abdul Razak, Minister of Education of Malaysia. In the speech, UTM was challenged by the minister to develop progressive scientific society, the society which not only able to use technology but also to the advancement of scientific culture and advanced technology.

9 July 1997

## Approval

A letter from Registrar Office to Dean of Faculty of Science, UTM, Prof. Dr. Azhari Salleh informed that the Board of Directors of UTM approved the establishment of Ibnu Sina Institute for Fundamental Science Studies (IIS).

23 July 1997

## Prof. Dr. Nobuki Kawashima

Appointment of Prof. Dr. Nobuki Kawashima from Kinki University as a Visiting Professor at IIS from 7-19 August 1997. Prof. Dr. Kawashima was the first visiting professor at IIS.

12 September 1997

## Block P02



IIS temporarily operated at Level 3, Block P02 (Block G), Faculty of Electrical Engineering, UTM.

1998



1998

## Prof. Dr. Karsono Ahmad Dasuki



Prof. Dr. Karsono Ahmad Dasuki was appointed as the second Director of Ibnu Sina Institute for Fundamental Science Studies (IIS). The administrative team comprising the Director and Prof. Dr. Noorddin Ibrahim as the Deputy Director, Prof. Dr. Halimatun Hamdan, Assoc. Prof. Dr. Samsudi Sakrani and Assoc. Prof. Dr. Jamalludin Talib. Under Prof. Karsono's management, IIS successfully secured Islamic Development Bank (IDB) loan worth RM 12 million to purchase capital scientific instruments.



2000



2000

## Prof. Dr. Halimaton Hamdan

Prof. Dr. Halimaton Hamdan was appointed as the third Director of Ibnu Sina Institute for Fundamental Science Studies (IIS). Prof. Norddin Ibrahim, Assoc. Prof. Dr. Mustafa Shamsuddin, Assoc. Prof. Dr. Zuhaimy Ismail, and Prof. Dr. Samsudi Sakrani were appointed as Deputy Director, Chemistry, Mathematics, and Physics Program Chairmen, respectively.



2002



2002

## Equipments and Excellent Scientists Program

IIS received scientific instruments purchased worth RM 12 million under Islamic Development Bank loan. These pieces of equipment were located temporarily at the Department of Chemistry and Malaysian Technology Development Corporation (MTDC) at Technovation Park, UTM. First intake of the undergraduate program for Excellent Scientists Program (ESP) was in the Second Year, Semester 1 for 2002/2003 session. Research project Zeolites and Derivatives as Catalyst in the Synthesis of Specialty Fine Chemicals led by Prof. Dr. Halimaton Hamdan has been selected as one of the projects under Top-Down Intensified Research in Priority Area (IRPA) research grant. The project received an allocation of RM 11.5 million.

2003



2003

## Appointments

Prof. Dr. Samsudi Sakrani was appointed as the Deputy Director of Ibnu Sina Institute for Fundamental Science Studies (IIS). Assoc. Prof. Dr. Yussof Wahab and Assoc. Prof. Dr. Zainal Abdul Aziz were appointed as Physics and Mathematics Program Chairmen, respectively. Dr. Hadi Nur joined IIS as a lecturer under the chemistry program.

20 May 2003

## The First Annual Fundamental Science Seminar

The First Annual Fundamental Science Seminar (AFSS) 2003 was held at The Puteri Pan Pacific Hotel, Johor Bahru. This year's theme was "Towards the Enhancement of Fundamental Science Research". The AFSS 2003 was dedicated to all aspects of fundamental science research, namely in the field of physics, chemistry, mathematics and biology.



August 2003

## Hokkaido University

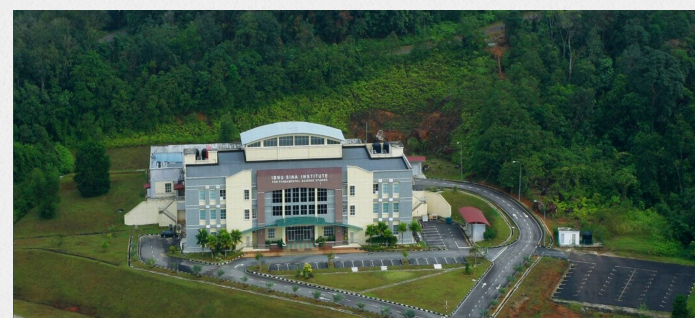
Memorandum of Understanding (MoU) with Catalytis Research Centre, Hokkaido University. As part of an effort to bring research under Chemistry Program to the global scale, a Memorandum of Understanding with Catalytis Research Centre (CRC), Hokkaido University (HU) was formally signed in August 2003 to establish collaborative research in several areas of catalysis and solid state chemistry. The signing of the MoU followed the successful research visit to HU in March 2002. The MoU covers the exchange of staff, researchers and graduate students working in the field of zeolite and derivatives as catalyst. The coordinator for CRC is Prof. Bunsho Ohtani, Head of the Laboratory of Catalytic Reaction Chemistry.



October 2003

## New building

IIS moved to a newly built building located on one of the hills surrounding the UTM campus in Skudai. IIS is a building of a central laboratory and administrative complex (approximately 4000 square meters). The complex of chemistry, physics, mathematics and biology laboratories, and administrative areas.



2004



24 April 2004

## Capital instruments



The transfer of capital analytical instruments of Ibnu Sina Institute for Fundamental Science Studies (IIS), such as

solid-state and liquid NMR instruments, from the laboratory at Technovation Park, to the new IIS building in UTM main campus. Other physics and mathematics equipment were also successfully moved to the new IIS building.

14 June 2004

## Prof. Dr. Carl E. Wieman



The Annual Fundamental Science Seminar 2004 (AFSS 2004) was held at IIS building, in conjunction with the

public lecture given by Prof. Carl E. Wieman (2001 Physics Nobel Laureate).

11 - 15 June 2004

## Annual Fundamental Science Seminar 2004

IIS successfully conducted two parallel events; the Annual Fundamental Science Seminar 2004 (AFSS 2004) and the first Youth Science Camp 2004 during IIS Science Week on 11-15 June 2004.



23 July 2004

## Prof. Dr. Richard R. Ernst



Nobel Laureate Prof. Dr. Richard R. Ernst gave a public lecture entitled “NMR and its Nobel Glory” and afterward visited the Solid

State Chemistry Laboratory. Prof. Dr. Richard R. Ernst visit is a part of his travel plan to Malaysia for the celebration of the Nobel Prize Centennial Exhibition, Kuala Lumpur, Malaysia 2004.

2004

## Research grant

Single Electron Transistors’ research program is one of the recent research proposals approved by The Ministry of Science, Technology & Innovation under the Intensification Research Program Area (IRPA), 8th Malaysia Plan of strategic research category, with allocation of about RM 11.4 million. Basically the research comprises of a series of 6 projects incorporated into a big program according to an umbrella concept and aimed to produce a typical Single Electron Transistors. This program involves collaborations with Universiti Sains Malaysia and Universiti Malaysia Perlis.

2005



2005

## Research grant

Due to our excellent and efficient work during phase I, IIS was allocated another RM 6 million to purchase more research equipment under the Islamic Development Bank (IDB) loan.

17-21 June 2005

## Youth Science Camp

IIS successfully organized the Youth Science Camp (YSC) 2005. The emphasis of the program for this year was on the importance of social values through scientific leadership and career.



4 - 5 July 2005

## **YAB Dato' Sri Mohd Najib Tun Abdul Razak**

Ibnu Sina Institute for Fundamental Science Studies (IIS), Universiti Teknologi Malaysia conducted the Annual Fundamental Science Seminar 2005 (AFSS 2005), the third in a series of seminars which explore specific areas of fundamental science in chemistry, physics, mathematics, and biosciences. The theme of AFSS 2005, "Nurturing Nanotechnology through fundamental science research" is in line with the current national activities on forming the National Nanotechnology Initiatives. In conjunction with AFSS 2005, IIS is hosting the Malaysian Nanotechnology Forum 2005 (MNF 2005) and the Asian Nano Forum 2005 (ANF 2005) Steering Committee Meeting. (MNF 2005) and the Asian Nano Forum 2005 (ANF 2005) Steering Committee Meeting. The IIS building and all these important events were officiated by YAB Dato' Sri Mohd Najib Tun Abdul Razak, The Deputy Prime Minister of Malaysia. The presence of YAB Dato' Sri indicates a strong supports of the Malaysian Government towards the development of scientific research in Malaysia.





16 - 20 June 2006

## Youth Science Camp

IIS successfully organized the Youth Science Camp (YSC) 2006.



2006

## Prof. Dr. Samsudi Sakrani



Ibnu Sina Institute for Fundamental Science Studies (IIS) announced the appointment of Prof. Dr. Samsudi Sakrani as the new Director of IIS. He succeeded the former Director, Prof. Dr. Halimatun Hamdan who

reached the end of her term of appointment on 31 July 2006.

6 - 7 June 2006

## Annual Fundamental Science Seminar 2006

Ibnu Sina Institute for Fundamental Science Studies successfully conducted the Annual Fundamental Science Seminar 2006 (AFSS 2006). The seminar, as usual, dealt with very varied subjects of fundamental sciences but more towards advance and complementary scopes presented by the distinguished scientists and experts as they will share their vast experiences and possible interest during discussions.





2007

## Appointments

Prof. Dr. Mohd Marsin Sanagi was appointed as the Director of Ibnu Sina Institute for Fundamental Science Studies, UTM to succeed Prof. Dr. Samsudi Sakrani who was promoted as Dean, Faculty of Science. Prof. Dr. Yussof Wahab, Assoc. Prof. Dr. Tahir Ahmad and Assoc. Prof. Dr. Ahmad Radzi Mat Isa were appointed as Deputy Director, Mathematics Program Chairman and Physics Program Chairman, respectively.



28 - 30 May 2007

## Regional Fundamental Science Seminar 2007



Ibnu Sina Institute for Fundamental Science Studies successfully conducted the Regional Fundamental Science

Seminar 2007 (RAFSS 2007) and International Conference on Mathematical Sciences 2007 (ICOMS 2007) on 28-29 May 2007. This joint seminar was attended by about 400 participants. There were more than 40 participants from abroad.

19 June 2007

## Youth Science Camp

IIS successfully organized the 4th Youth Science Camp (YSC) 2007.





15 March 2011

## Prof. Dr. Mustaffa Shamsuddin

Prof. Dr. Mustaffa Shamsuddin was appointed as the Director of Ibnu Sina Institute for Fundamental Science Studies, UTM to succeed Prof. Dr. Mohd Marsin Sanagi.



20 - 21 December 2011

## Regional Annual Fundamental Science Symposium 2011

Regional Annual Fundamental Science Symposium 2011 (RAFSS 2011) – 20 to 21 December 2011 – is the ninth in a series of interdisciplinary symposia devoted to all aspects of fundamental science research in the field of physics, chemistry, mathematics and biology organized by the Ibnu Sina Institute for Fundamental Science Studies, Universiti Teknologi Malaysia. Lectures will be given by invited eminent specialists. Prof. Norikazu Nishiyama (Osaka University) and Prof. Andriwo Rusydi (National University of Singapore) were invited to deliver the lectures. Prof. Nishiyama also gave scientific talks at our institute.





2013



3 - 5 September 2013

## International Conference and Workshop on Basic and Applied Sciences

IIS successfully organised 4th International Conference and Workshop on Basic and Applied Sciences (4th ICOWOBAS) and Regional Annual Fundamental Science Symposium 2013 (RAFSS 2013). 4th ICOWOBAS and RAFSS 2013 were a series of interdisciplinary conferences and workshops devoted to all aspects of science and mathematics, namely the field of physics, chemistry, mathematics, and biology. It is jointly organized by the Faculty of Science (Universiti Teknologi Malaysia), Ibnu Sina Institute for Fundamental Science Studies (Universiti Teknologi Malaysia), Universitas Airlangga (Surabaya, Indonesia) and Salahaddin University (Erbil, Iraqi Kurdistan).



2014



8 - 11 September 2014

## Regional Annual Fundamental Science Symposium 2014

IIS successfully organized the Regional Annual Fundamental Science Symposium 2014 (RAFSS 2014).





15 February 2015

## Restructuring of the Ibnu Sina Institute for Fundamental Science Studies

In 2015, Universiti Teknologi Malaysia (UTM) radically restructured its research centres organisations with the aim of its further development in the response to changing university needs. To facilitate research and operational activities, the Ibnu Sina Institute for Fundamental Science Studies (IIS) was renamed to Ibnu Sina Institute for Scientific and Industrial Research (ISI-SIR). Prof. Dr. Mohd Marsin Sanagi was appointed as the Senior Director of ISI-SIR.



15 February 2015

## Prof. Dr. Hadi Nur

Prof. Dr. Hadi Nur has been appointed by the university as Director of Centre for Sustainable Nanomaterials, Ibnu Sina Institute for Scientific and Industrial Research.





23 February 2016

## Prof. Dr. Abdull Rahim Mohd Yusoff

Prof. Dr. Abdull Rahim Mohd Yusoff was appointed as the Senior Director of ISI-SIR to succeed Prof. Dr. Mohd Marsin Sanagi.



18 May 2016

## Indonesia-Malaysia Research Consortium (I'MRC)

Ibnu Sina Institute is the secretariat for I'M Research Consortium (Indonesia-Malaysia Research Consortium). I'M Research Consortium is the Indonesia-Malaysia network of research-intensive universities and institution, working together to foster institutional innovation through research-inspired teaching and learning, student mobility, connecting our students and staff, and wider advocacy for internationalisation.





1 October 2018

## Prof. Dr. Hadi Nur

Prof. Dr. Hadi Nur was appointed as the Institute Director of ISI-SIR to succeed Prof. Dr. Abdull Rahim Mohd Yusoff who was promoted as Dean, Faculty of Science. Building on an excellent foundation, Ibnu Sina Institute is now driven by six Research Centres that merged to capitalise expertise that will substantially influence the society in the coming years.



25 October 2018

## CREAM 2018 Awards



The Malaysian Journal of Fundamental and Applied Sciences (MJFAS), an official journal of ISI-SIR, is the recipient of Current Research in Malaysia (CREAM 2018) Awards by

the Ministry of Education Malaysia. CREAM Awards are accorded to scholarly journals published by Malaysian academic publishers showing high performance on publications based on identified criteria outlined by the Malaysian



January 2020

## New office

The office of Ibnu Sina Institute for Scientific and Industrial Research (ISI-SIR) and Centre for Sustainable Nanomaterials (CSNano) moved to Block T02 building.



# 2.4

## Former staff

“Thank you once again for your contribution!”



**Thank you!**

There are many people in the Ibnu Sina Institute for Scientific and Industrial Research (ISI-SIR) (formerly known as Ibnu Sina Institute for Fundamental Science Studies) community who have made an incredible contribution to ISI-SIR over many years. The values that our former staff members, visiting professors and scientists have helped establish over the years remain in our DNA.

## Former staff

- **Prof. Datuk Dr. Halimaton Hamdan** • (Director)
- **Prof. Dr. Mohamad Rashidi Md Razali** • (Director)
- **Prof. Dr. Karsono Ahmad Dasuki** • (Director)
- **Prof. Dr. Samsudi Sakrani** • (Director)
- **Prof. Dr. Mohd Marsin Sanagi** • (Director)
- **Prof. Dr. Mustaffa Shamsuddin** • (Director)
- **Prof. Dr. Zainal Abdul Aziz** • (Mathematics Programme Chairman)
- **Prof. Dr. Norddin Ibrahim** • (Deputy Director)
- **Prof. Dr. Yussof Wahab** • (Deputy Director)
- **Prof. Dr. Abdul Rahim Yacob** • (Chemistry Programme Chairman)
- **Prof. Dr. Y.T. Chen** • (Professor)
- **Prof. Dr. Thomas Jeffrey C. Hosea** • (Professor)
- **Prof. Dr. Zulkafli Othman** • (Professor)
- **Prof. Dr. Sugeng Triwahyono** • (Professor)
- **Prof. Dr. Tahir Ahmad** • (Professor)
- **Assoc. Prof. Dr. Ahmad Radzi Mat Isa** • (Physics Programme Chairman)
- **Assoc. Prof. Dr. Zainab Ramli** • (Chemistry Programme Chairman)
- **Assoc. Prof. Dr. Nor Aziah Buang** • (Chemistry Programme Chairman)
- **Prof. Dr. Zuhaimy Ismail** • (Mathematics Programme Chairman)
- **Assoc. Prof. Dr. Ali Hassan Mohamed Murid** • (Mathematics Programme Chairman)
- **Assoc. Prof. Dr. Wan Muhamad Saridan Wan Hassan** • (Physics Programme Chairman)
- **Assoc. Prof. Dr. Riadh Sahnoun** • (Associate Professor)
- **Assoc. Prof. Dr. Norma Alias** • (Associate Professor)
- **Dr. Fong Wan Heng** • (Senior Lecturer)
- **Dr. Jon Efendi** • (Senior Lecturer)
- **Dr. Dadan Hermawan** • (Senior Lecturer)
- **Dr. Dwi Gustiono** • (Senior Lecturer)
- **Dr. Norhidayu Mohd Zain** • (Senior Lecturer)
- **Dr. Rafaqat Hussain** • (Senior Lecturer)
- **Dr. Hendrik Oktendy Lintang** • (Senior Lecturer)
- **Dr. Leny Yuliati** • (Senior Lecturer)
- **Dr. Niki Anis Ab Karim** • (Senior Lecturer)
- **Nurul Aini Tarjudin** • (Lecturer)
- **Halijah Sawal** • (Support staff)
- **Lim Kheng Wei** • (Support staff)
- **Siti Hadijah Mukamar** • (Support staff)
- **Hafnira Raduan** • (Support staff)
- **Faiznureza Mohamad Pauzi** • (Support staff)
- **Azlizah Suri** • (Support staff)
- **Marziah Mohd Sidin** • (Support staff)
- **Siti Rahayu Yusof** • (Support staff)
- **Kamsiah Nor Kamaruddin** – (Support staff)
- **Mohd Nazri Nawi** • (Support staff)
- **Mohd Nizam Imran** • (Support staff)
- **Zarina Junet** • (Support staff)
- **Syaheera Seliman** • (Support staff)
- **Mohd NoorFazli Roslee** • (Support staff)
- **Mohamed Mohd Salleh** • (Support staff)
- **Aminurrashid Yahya** • (Support staff)
- **Wan Faizal Wan Ahmad** • (Support staff)
- **Saiful 'Adli Mohd Noh** • (Support staff)
- **Norhaliza Abdul Rahman** • (Support staff)
- **Nur Azleena Kasiran** • (Support staff)

## Visiting professors and scientists

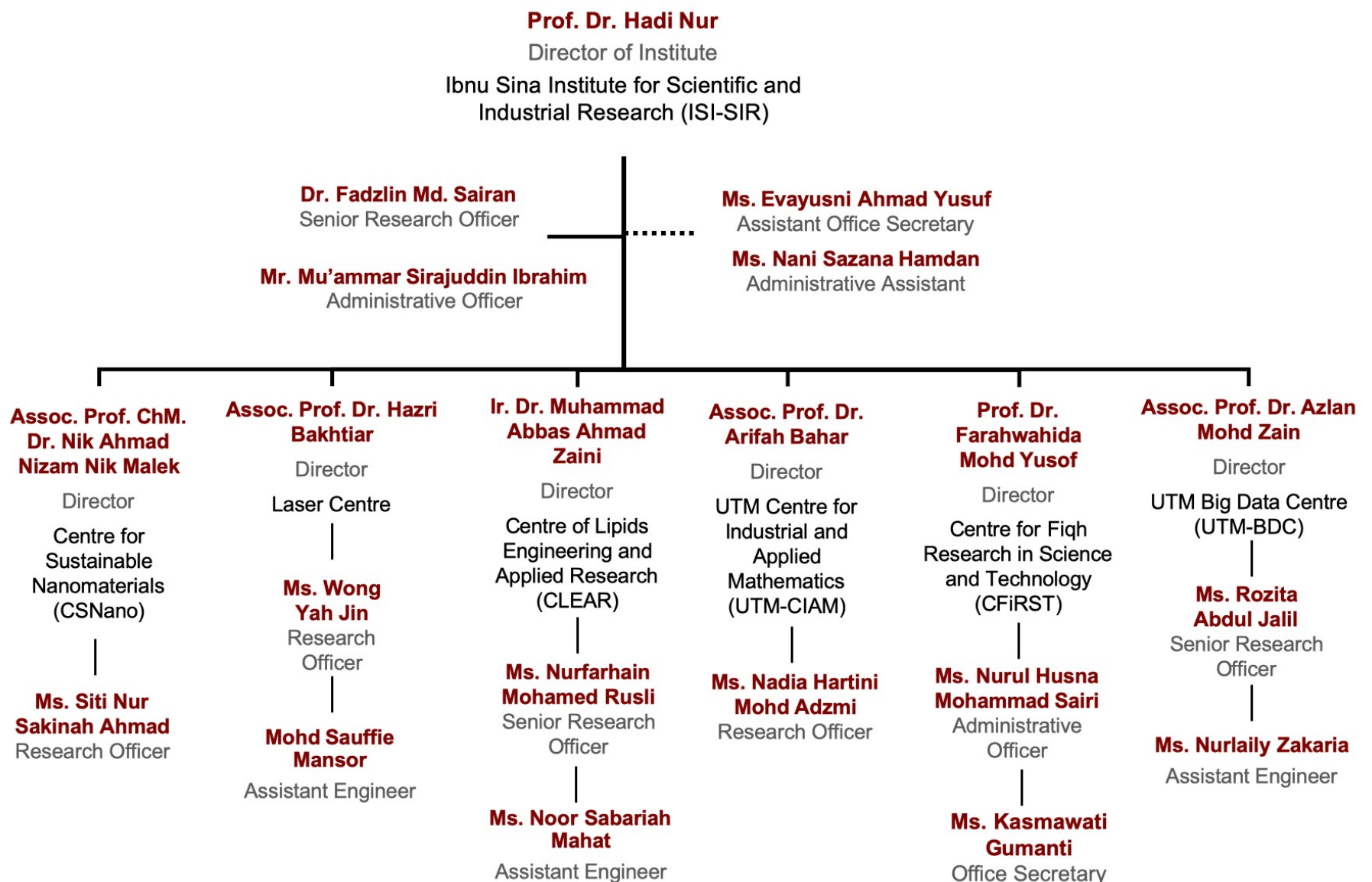
- **Prof. Dr. Bunsho Ohtani** • (Hokkaido University)
- **Prof. Dr. Tatsuya Okubo** • (Tokyo University)
- **Prof. Dr. Dieter Freude** • (Leipzig University)
- **Prof. Dr. Michio Matsumura** • (Osaka University)
- **Prof. Dr. Akira Sakai** • (Osaka University)
- **Prof. Dr. Yasuhiro Shiraishi** • (Osaka University)
- **Prof. Dr. Tadao Nagatsuma** • (Osaka University)
- **Prof. Dr. Massaki Ashida** • (Osaka University)
- **Prof. Dr. Hisao Yoshida** • (Nagoya University)
- **Prof. Dr. Jun Miyake** • (Osaka University)
- **Prof. Dr. Norikazu Nishiyama** • (Osaka University)
- **Prof. Dr. Takeshi Naota** • (Osaka University)
- **Prof. Dr. Tomoo Mizukagi** • (Osaka University)
- **Prof. Dr. Robert F. Morse** • (University of Evansville)
- **Prof. Dr. Hideshi Hattori** • (Hokkaido University)
- **Prof. Dr. Masao Takuda** • (Hokkaido University)
- **Prof. Dr. J. C. Butcher** • (The University of Auckland)
- **Prof. Dr. Wan Ahmad Tajuddin Wan Abdullah** • (Universiti Malaya)
- **Prof. Dr. Maman Abdulrachman Djauhari** • (Institut Teknologi Bandung)
- **Dr. Gopinathan Sankar** • (Davy Faraday Research Laboratory)
- **Assoc. Prof. Dr. Shigeru Ikeda** • (Osaka University)
- **Prof. Dr. Thomas Head** • (Binghamton University)
- **Dr. Yarub Al-Douri** • (Jordan))
- **Prof. Dr. Chaman L. Jain** • (St. John's University)

- **Dr. Frederidcus Petrus Henricus van Beckum** • (University of Twente)
- **Assoc. Prof. Dr. Ahmed Muhammed Al-Manasreh** • (Hashemite University, Jordan)
- **Prof. Dr. Ioan Pop** • (University of Cluj)
- **Assoc. Prof. Dr. Bogdan Sulikowski** • (Polish Academy of Science)
- **Dr. Luca Lucarelli** • (Thermoquest, Italy)
- **Prof. Dr. Nobuki Kawashima** • (Kinki University)
- **Prof. Dr. M. A. K. Lodhi** • (Texas Technology, University Lubbock)
- **Prof. Dr. Harith Ahmad** • (Universiti Malaya)
- **Assoc. Prof. Dr. Musa Ahmad** • (Universiti Kebangsaan Malaysia)
- **Prof. Noriyuki Kuramoto** • (Yamagata University)
- **Dr. Hwa A. Lim** • (CEO of D'Trend, Inc, San Ramon California, USA)

# 3

## Staff and organisation

“The staff and students of ISI-SIR look forward to seeing how things work and inspired to make them work better.”



## 2020 facts and figures for staff

6

Professor

18

Associate  
Professor

5

Senior Lecturer and  
Lecturer

7

Research Officer

20

Support staff

87

Total number of  
staff





**Prof. Dr. Hadi Nur**



**Assoc. Prof. Dr. ChM. Nik Ahmad Nizam Nik Malek**



**Prof. Dr. Farahwahida Mohd Yusof**



**Assoc. Prof. Dr. Hazri Bakhtiar**



**Assoc. Prof. Dr. Arifah Bahar**



**Ir. Dr. Muhammad Abbas Ahmad Zaini**



**Assoc. Prof. Dr. Azlan Mohd Zain**



**Dr. Fadzlin Md. Sairan Zain**



**Mr. Mu'ammam Sirajuddin Ibrahim**



**Ms. Siti Nur Sakinah Ahmad**



**Ms. Wong Yah Jin**



**Ms. Nurfarhain Mohamed Rusli**



**Ms. Nadia Hartini Mohd Adzmi**



**Ms. Rozita Abdul Jalil**



**Ms. Nani Sazana Hamdan**



**Ms. Evayusni Ahmad Yusuf**

## Academic staff

Name	Research centre	Academic rank	Membership
Hadi Nur	CSNano	Professor	Director of ISI-SIR
Abdull Rahim Mohd Yusoff	CSNano	Professor	Member
Nik Ahmad Nizam Nik Malek	CSNano	Associate Professor	Director of CSNano
Lee Siew Ling	CSNano	Associate Professor	Member
See Hong Heng	CSNano	Associate Professor	Member
Wan Aini Wan Ibrahim	CSNano	Professor	Associate Member
Suhairul Hashim	CSNano	Associate Professor	Associate Member
Yap Yung Szen	CSNano	Senior Lecturer	Associate Member
Naji Arafat Haji Mahat	CSNano	Senior Lecturer	Associate Member
Sheela A/P Chandren	CSNano	Senior Lecturer	Associate Member
Fazira Ilyana Abdul Razak	CSNano	Senior Lecturer	Associate Member
Aemi Syazwani Abdul Keyon	CSNano	Senior Lecturer	Associate Member
Farahwahida Mohd Yusof	CFIRST	Professor	Director of CFIRST
Arieff Salleh Rosman	CFIRST	Associate Professor	Member
Aminudin Hehsan	CFIRST	Senior Lecturer	Member
Zulkiflee Haron	CFIRST	Senior Lecturer	Member
Mohd Al'ikhsan Ghazali	CFIRST	Senior Lecturer	Member
Zilal Saari	CFIRST	Senior Lecturer	Member
Hadina Habil	CFIRST	Associate Professor	Associate Member
Mohd Fauzi Abu@Hussin	CFIRST	Associate Professor	Associate Member
Nasrul Hisyam Nor Muhamad	CFIRST	Associate Professor	Associate Member
Mohd Iskandar Illyas Tan	CFIRST	Senior Lecturer	Associate Member
Juhazren Junaidi	CFIRST	Lecturer	Associate Member
Razauden Mohamed Zulkifli	CFIRST	Senior Lecturer	Associate Member
Hafiza Abas	CFIRST	Senior Lecturer	Associate Member
Muhammad Abbas Ahmad Zaini	CLEAR	Senior Lecturer	Director of CLEAR
Mohd Azizi Che Yunus	CLEAR	Associate Professor	Member
Siti Hamidah Mohd Setapar	CLEAR	Associate Professor	Member
Norasikin Othman	CLEAR	Associate Professor	Member
Liza Md. Salleh	CLEAR	Associate Professor	Member
Mazura Jusoh	CLEAR	Associate Professor	Member
Nur Izyan Wan Azelee	CLEAR	Senior Lecturer	Associate Member
Hazri Bakhtiar	Laser Center	Associate Professor	Director of Laser Center
Ganesan A/L Krishnan	Laser Center	Senior Lecturer	Member

Kashif Tufail Chaudhary	Laser Center	Senior Lecturer	Member
Muhammad Safwan Abd Aziz	Laser Center	Senior Lecturer	Member
Suzairi Daud	Laser Center	Senior Lecturer	Member
Maisarah Duralim	Laser Center	Senior Lecturer	Member
Raja Kamarulzaman Bin Raja Ibrahim	Laser Center	Senior Lecturer	Associate Member
Nor Ain Husein	Laser Center	Senior Lecturer	Associate Member
Sib Krishna Ghoshal	Laser Center	Associate Professor	Associate Member
Husni Hani Jameela Sapongi	Laser Center	Senior Lecturer	Associate Member
Arifah Bahar	UTM-CIAM	Associate Professor	Director of UTM-CIAM
Zaitul Marlizawati Zainuddin	UTM-CIAM	Associate Professor	Member
Mohd Ridza Mohd Haniffah	UTM-CIAM	Senior Lecturer	Member
Nur Arina Bazilah Aziz	UTM-CIAM	Senior Lecturer	Member
Taufiq Khairi Ahmad Khairuddin	UTM-CIAM	Senior Lecturer	Member
Shariffah Suhaila Syed Jamaludin	UTM-CIAM	Senior Lecturer	Member
Fadhilah Yusof	UTM-CIAM	Professor	Associate Member
Zulkepli Majid	UTM-CIAM	Associate Professor	Associate Member
Ahmad Razin Zainal Abidin @ Md. Taib	UTM-CIAM	Senior Lecturer	Associate Member
Koh Meng Hock	UTM-CIAM	Senior Lecturer	Associate Member
Sharidan Shafie	UTM-CIAM	Associate Professor	Associate Member
Syaharizatul Noorizwan Muktar	UTM-CIAM	Senior Lecturer	Associate Member
Azlan Mohd Zain	UTM-BDC	Associate Professor	Director of UTM-BDC
Naomie Salim	UTM-BDC	Professor	Member
Norhaida Mohd Suaib	UTM-BDC	Senior Lecturer	Member
Sarina Sulaiman	UTM-BDC	Senior Lecturer	Member
Afnizanfaizal Abdullah	UTM-BDC	Senior Lecturer	Member
Istas Fahrurrazi Nusyirwan	UTM-BDC	Senior Lecturer	Member

## Support staff

Name	Research centre or unit	Position
Siti Nur Sakinah Ahmad	CSNano	Research Officer, QA41
Sabariah Ajs	CSNano	Science Officer, CA44
Ikhwan Shahid Ibrahim	CSNano	Assistant Engineer, JA29
Nurul Adhah Saini	CSNano	Assistant Science Officer, CA29
Nur Hidayah Azmi	CSNano	Assistant Engineer, JA29
Nani Sazana Hamdan	CSNano/ISI-SIR	Administration Assistant, NA19
Noranizam Demin	CSNano	Information Technology Assistant Officer, FA29
Shahrul Nizam Mahmod	CSNano	Senior Clerk, NA22B
Nurfahain Mohamed Rusli	CLEAR	Research Officer, QA44
Zuhaili Idham	CLEAR	Research Officer, QA48 (study leave)
Noor Sabariah Mahat	CLEAR	Assistant Engineer, JA29
Nadia Hartini Mohd Adzmi	UTM-CIAM	Research Officer, QA41
Kasmawati Gumanti	CFIRST	Office Secretary, NA29
Wong Yah Jin	Laser Center	Research Officer, QA41
Muhammad Aizi Mat Salim	Laser Center	Science Officer, CA41/44
Asmawi Mohamad	Laser Center	Assistant Engineer, JA29
Mohd Nasir Abu Bakar	Laser Center	Assistant Engineer, JA29
Mohd Rizal Haji Mahadi	Laser Center	Administration Assistant, NA19
Mohd. Nasir Mohamed Yunus	Laser Center	Assistant Engineer, JA29
Wan Yusof Wan Mamat	Laser Center	Assistant Science Officer, CA29
Mohd Sauffie Mansor	Laser Center	Assistant Engineer, JA29
Rozita Abdul Jalil	UTM-BDC	Research Officer, QA41
Nurlaily Zakaria	UTM-BDC	Assistant Engineer, JA29
Nurul Husna Mohammad Sairi	CFIRST	Assistant Registrar, NA41
Mu'ammam Sirajuddin Ibrahim	ISI-SIR	Assistant Registrar, NA41
Fadzlin Md Sairan	ISI-SIR	Research Officer, QA44
Evayusni Ahmad Yusuf	CSNano/ISI-SIR	Administration Assistant, NA19

# 4

## Initiatives

“The best of people are those that bring the most benefit to the rest of mankind.”

### Indonesia-Malaysia Research Consortium (I'MRC)

Ibnu Sina Institute is the secretariat for I'M Research Consortium (Indonesia-Malaysia Research Consortium), the Indonesia-Malaysia network of research-intensive universities and institution, working together to foster institutional innovation through research-inspired teaching and learning, student mobility, connecting our students and staff, and wider advocacy for internationalisation.



### Malaysian Journal of Fundamental and Applied Sciences (MJFAS)

The Malaysian Journal of Fundamental and Applied Sciences (MJFAS) (formerly known as Journal of Fundamental Sciences (2005-2011), ISSN: 1823-626X) is a refereed research journal of IIS-SIR.

A screenshot of the Malaysian Journal of Fundamental and Applied Sciences (MJFAS) website homepage. The page features a navigation menu with links like HOME, ABOUT, USER HOME, SEARCH, CURRENT, ARCHIVES, ANNOUNCEMENTS, SUBMISSION, EDITORIAL TEAM, REVIEWERS, IBNU SINA INSTITUTE, and UNIVERSITI TEKNOLOGI MALAYSIA. Below the navigation, there is a section titled "Malaysian Journal of Fundamental and Applied Sciences" with a sub-header "MJFAS promotes and supports I'M Research Consortium". A central image shows a "I'M Research Consortium Forum" held on 18 May 2016 in Kuala Lumpur. To the right, there is a "Submit Your Paper" button and a notice that MJFAS is the recipient of Current Research in Malaysia (CREAM 2018) Awards by the Ministry of Education Malaysia. At the bottom, there is a table of citation metrics: Citations (1478), h-Index (15), I10-Index (27), and Articles (786). The page also includes the UTM logo and a YouTube icon.

## Entrepreneurship ecosystem

CSNano Technologies Sdn Bhd, Synapse Innovation Sdn Bhd, HA Southern Global Sdn Bhd, and Myhims Solutions PLT were incorporated to operate as the commercial arm of ISI-SIR, Universiti Teknologi Malaysia (UTM). The venture was in line with the UTM's call for greater commercial involvement by higher education institutions. As UTM spin-off companies, CSNano Technologies Sdn Bhd, Synapse Innovation Sdn Bhd, HA Southern Global Sdn Bhd, and Myhims Solutions PLT key focus are now to engage with community and industry as part of its drive entrepreneurship ecosystem of ISI-SIR.



## Seminar series

Since 2008, Ibnu Sina Institute plays host to regular seminars by experts and high-profile presenters. The topics range widely but are always engaging. As well as being attended by staff and students of UTM, these seminars are open to the public.



# 5

## Expertise

"Alone we can do so little; together we can do so much."

We are an interdisciplinary research institute working to invent the future of

**#materials science**

**#laser and photonic**

**#industrial mathematics**

**#separation technology**

**#fiqh science and technology**

**#computer science and big data**

The role of Science and Technology in the industry and society are key themes of the institute. Powered by experts, Ibnu Sina Institute coordinates and aligns the resources towards multi and inter-disciplinary research activities through creativity and innovation supported by strategic partnerships with key universities and industries.

**More than 1,200 papers contribution to knowledge indexed by Google Scholar**

<b>Researcher</b>	<b>Expertise and research topic</b>
Prof. Dr. Y.T. Chen (1997 – 2003)	Einstein's gravitational waves
Prof. Dr. Hadi Nur	Advanced materials and heterogeneous catalysts
Assoc. Prof. Dr. See Hong Heng	Separation science and technology
Assoc. Prof. Dr. Nik Ahmad Nizam Nik Malek	Applied materials science for biological and medical areas
Assoc. Prof. Dr. Lee Siw Ling	Metal oxides catalysts and photocatalysts
Assoc. Prof. Dr. Hazri Bachtiar	Optics and laser technology
Assoc. Prof. Dr. Siti Zaiton Mohd Hashim	Big data analytics
Dr. Muhammad Abbas Ahmad Zain	Adsorption process and supercritical extraction
Assoc. Prof. Dr. Arifah Bahar	Stochastic process
Prof. Dr. Farahwahida Mohd Yusof	Fiqh science and technology
Dr. Afnizanfaizal Abdullah	Machine learning, cloud computing, and synthetic biology
Assoc. Prof. Dr. Mohd Azizi Che Yunus	Supercritical fluids in separation technology
Assoc. Prof. Dr. Siti Hamidah Mohd Setapar	Nanotechnology for design and development of cosmeceutical
Assoc. Prof. Dr. Mazura Jusoh	Progressive freeze concentration
Assoc. Prof. Dr. Norasikin Othman	Separation process: Solvent extraction and liquid membrane process
Prof. Dr. Naomie Salim	Information retrieval, database systems, chemical informatics, text mining, and big data
Dr. Ganesan Khrishnan	Laser and photonics
Assoc. Prof. Dr. Liza Md. Salleh	Extraction of Natural Product by Green Technology Technique
Dr. Taufiq Khairi Ahmad Khairuddin	Linear algebra
Dr. Nur Arina Bazilah Aziz	Genetic algorithm
Dr. Muhammad Safwan Afwan Aziz	Gold nanoparticle trapping and delivery for therapeutic applications
Dr. Maisarah Duralim	Laser-induced breakdown spectroscopy
Dr. Kashif Tufail Chaudhary	Carbon nanotube
Dr. Sarina Sulaiman	Soft computing
Dr. Shariffah Suhaila Syed Jamaludin	Functional data analysis



Dr. Norhaida Mohd Suaib	Computer graphics
Dr. Mohd Ridza Mohd Haniffah	Computational fluid dynamics
Dr. Aminudin Hehsan	Islamic education
Dr. Zulkiflee Haron	Islamic civilization
Dr. Mohd Al'Ikhsan Ghazali	Hadith
Dr. Zilal Saari	Women in development
Assoc. Prof. Dr. Siti Zaiton Mohd Hashim	Big data analytics
Assoc. Prof. Dr. Zaitul Marlizawati Zainuddin	Operational Research
Assoc. Prof. Dr. Azlan Mohd Zain	Artificial neural network

# 6

## Students & postdocs

“Strive for progress, not perfection.”

**Ibnu Sina Institute for Scientific and Industrial Research (ISI-SIR) has a wealth of resources for postgraduate students and postdocs. It starts here to find info about the students and postdocs.**

**89**

Masters students

**200**

Ph.D. students

**8**

Postdoc

**297**

Total



## Students and postdocs

Name of student and postdoc	Degree	Supervisor
Ahmad Syahmi Zaini	Masters	Assoc. Prof. Dr. Mohd Azizi Che Yunus
Azrul Nurfaiz Mohd Faizal	Masters	Dr. Muhammad Abbas Ahmad Zaini
Fadina Amran	Masters	Assoc. Prof. Dr. Mohd Abbas
Yeo Shi Hao	Masters	Assoc. Prof. Dr. Mohd Azizi Che Yunus
Syahira Nurulashikin	Masters	Assoc. Prof. Dr. Norasikin Othman
Mohamad Riduan	Masters	Assoc. Prof. Dr. Mazura Jusoh
Norhafiza Nordin	Masters	Dr. Izyan Wan Azelee
Pua Eng Hock	Masters	Dr. Muhammad Abbas Ahmad Zaini
Siti Nur Attiya Shamsul Azhar	Masters	Prof. Dr. Farahwahida Mohd Yusof
Syakirah Zahar	Masters	Prof. Dr. Farahwahida Mohd Yusof
Safiah Najwa Mohd Zaky	Masters	Prof. Dr. Farahwahida Mohd Yusof
Shahrul Azman Md Sani	Masters	Prof. Dr. Farahwahida Mohd Yusof
Nur Hidayah Idris	Masters	Dr. Zilal Saari
Siti Mariam Ali	Masters	Dr. Zilal Saari
Nurul Atika Mohd Rosli	Masters	Dr. Zilal Saari
Nor Afizah Bujang	Masters	Dr. Zilal Saari
Fairuzah Mat Salleh	Masters	Dr. Zilal Saari
Ashraf Salama Sayed Salama	Masters	Assoc. Prof. Dr. Arieff Salleh Rosman
Murad Ali Murad Al Balushi	Masters	Assoc. Prof. Dr. Arieff Salleh Rosman
Ahmed Ali Ahmed Sharara Aldhuhoori	Masters	Assoc. Prof. Dr. Arieff Salleh Rosman
Humaid Hamad Saeed Hamad Alkalbani	Masters	Assoc. Prof. Dr. Arieff Salleh Rosman
Mohd Hasli Ramli	Masters	Assoc. Prof. Dr. Arieff Salleh Rosman
Syahiruddin Annuar	Masters	Assoc. Prof. Dr. Arieff Salleh Rosman
Ali Mohamed Ali Alzain Aldhuhoori	Masters	Assoc. Prof. Dr. Arieff Salleh Rosman
Muhamad Hafiz Ab Ghani	Masters	Dr. Zulkiflee Haron
Muhammad Saifi Saleh Sutan	Masters	Dr. Zulkiflee Haron
Mohd Khairil Anuar Mohd Wafa	Masters	Dr. Zulkiflee Haron

Zaihan Ramli	Masters	Dr. Aminudin Hehsan
Ahmad Zamri Mohd Idris	Masters	Dr. Aminudin Hehsan
Mahibah Mohamid Ali	Masters	Dr. Aminudin Hehsan
Roziana Zailani	Masters	Dr. Aminudin Hehsan
Abdul Basit Abdur Rahim Nasution	Masters	Dr. Aminudin Hehsan
Jamaluddin Bahari	Masters	Dr. Aminudin Hehsan
Nurul Aini Kadir	Masters	Dr. Aminudin Hehsan
Bal Ikhwan Khairul Anwar	Masters	Dr. Aminudin Hehsan
Wan Sukairi Wan Abdullah	Masters	Dr. Aminudin Hehsan
Muhammad Zulhilmi Amir Awaluddin	Masters	Assoc. Prof. Dr. Nik Ahmad Nizam Nik Malek
Salahaedin Waiezi	Masters	Assoc. Prof. Dr. Nik Ahmad Nizam Nik Malek
Ling Chui Min	Masters	Assoc. Prof. Dr. Lee Siew Ling
Nurul Adibah Ali	Masters	Assoc. Prof. Dr. See Hong Heng
Thipashini Ganesan	Masters	Assoc. Prof. Dr. See Hong Heng
Syahira Omar	Masters	Prof. Dr. Hadi Nur
Siti Syuhaida Safaai	Masters	Prof. Dr. Naomie Salim
Nur Aini Zakaria	Masters	Assoc. Prof. Dr. Azlan Mohd Zain
Nurazrin Mohd Esa	Masters	Assoc. Prof. Dr. Azlan Mohd Zain
Jalilah Arijah Mohd Kamarudin	Masters	Dr. Afnizanfaizal Abdullah
Nur Afifah Bahmad Ahyad	Masters	Dr. Afnizanfaizal Abdullah
Nik Mohammad Wafiy Azmi	Masters	Dr. Norhaida Mohd Suaib
Ahmad Hakim Ahmad Rahman	Masters	Dr. Norhaida Mohd Suaib
Muneswary A/P Saminathan	Masters	Dr. Norhaida Mohd Suaib
Ikmal Faiq Albakri Mustafa Albakri	Masters	Dr. Norhaida Mohd Suaib
Chia Chen Ciang	Masters	Dr. Ista Fahrurrazi Nusyirwan
Muhammad Nooralif Darsim	Masters	Dr. Ista Fahrurrazi Nusyirwan
Aliff Ashraff Shahurin	Masters	Dr. Ista Fahrurrazi Nusyirwan
Nurul Adilah Abu Bakar	Masters	Assoc. Prof Dr. Siti Zaiton Mohd Hashim
Nurzaira Syakirah Mohd Zaidi	Masters	Dr. Nur Arina Bazilah Aziz

Ayuna Sulekan	Masters	Dr. Shariffah Suhaila Seyd Jamaludin
Norazraai Nordin	Masters	Dr. Shariffah Suhaila Seyd Jamaludin
Muhammad Hanafi Roslan	Masters	Dr. Ahmad Razin Zainal Abidin @ Md. Taib
Nurazira Anuar	Masters	Dr. Naji Arafat Mahat
Imad Eddine Aouissi	Masters	Dr. Sheela Chandren
Abdul Fatah Deraman	Masters	Dr. Sheela Chandren
Aimi` Amirah Jasni	Masters	Dr. Yap Yung Szen
Eow Wei Siang	Masters	Dr. Yap Yung Szen
Mahmood Ali Mahmood Al-Hajj	Masters	Dr. Fazira Ilyana Abdul Razak
Nuridayah Yusmaidi	Masters	Dr. Fazira Ilyana Abdul Razak
Nur Shahz Ereena Zulkifli	Masters	Dr. Aemi Syazwani Abdul Keyon
Farah Zafirah	Masters	Dr. Aemi Syazwani Abdul Keyon
Anis Nur Shasha Abdul Halim	Masters	Dr. Aemi Syazwani Abdul Keyon
Nur Idayu Mat Ghani	Masters	Dr. Aemi Syazwani Abdul Keyon
Mohd Shahril Salleh	Masters	Dr. Kashif Tufail Chaudhary
Che Zaheerah Najeehah	Masters	Dr. Kashif Tufail Chaudhary
Nurfarah Faqihah Mansor	Masters	Dr. Raja Kamarulzaman Raja Ibrahim
Khairiah Nur Ain Mohammed Hassan	Masters	Dr. Raja Kamarulzaman Raja Ibrahim
Esmafatinsyafiqa Multar	Masters	Dr. Suzairi Daud
Aneez Syuhada Mangsor	Masters	Dr. Muhammad Safwan Abd Aziz
Afiq Awalludin	Masters	Dr. Muhammad Safwan Abd Aziz
Nurfatin Musa	Masters	Dr. Muhammad Safwan Abd Aziz
Khairiah Mohd Yatim	Masters	Assoc. Prof. Dr Hazri Bakhtiar
Muhammad Izz Rosli	Masters	Dr Muhammad Safwan Abd Aziz
Nur Syahairah Sahidan	Masters	Assoc. Prof. Dr Hazri Bakhtiar
Siti Nur Aizati Rohizad	Masters	Dr. Suzairi Daud
Chiu Wei Lun	Masters	Dr. Yap Yung Szen
Muhammad Adam Norrulashikin	Masters	Prof. Dr. Fadhilah Yusof
Noorisma Farina Abdul Rahim	Masters	Dr. Koh Meng Hock
Noor Zakiah Yahya	Masters	Assoc. Prof. Dr. Sharidan Shafie

Nursyahira Ahmad Fuad	Masters	Assoc. Prof. Dr. Zulkepli Majid
Mustaffa Shahim	Masters	Assoc. Prof. Dr. Sharidan Shafie
Nur Asma' Arselan	Masters	Assoc. Prof. Dr. Zulkepli Majid
Mastura Bohari	Ph.D.	Prof. Dr. Farahwahida Mohd Yusof
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Hamad Mohamed Hassan Mohamed Alyassi	Ph.D.	Assoc. Prof. Dr. Arieff Salleh Rosman
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