

INSA

INSTITUT NATIONAL
DES SCIENCES
APPLIQUÉES
RENNES

LA RÉTRO RETROSPECT 2019/2020

OPENING UP MINDS

THE ACADEMIC YEAR

MAJOR EVENTS

ÉDITO RIAL



The 2019/2020 academic year was unique in many respects. Indeed, we went through a very difficult period on a national scale, one that is unprecedented in history.

During lockdown and well beyond, the staff and students of our institute actively committed themselves, both individually and as part of a group, to maintaining the continuity of the institute's activities. Torn between feelings of fear and solidarity, this shared ordeal intensified the values we hold dear: participation, openness, goodwill and innovation.

The INSA Rennes staff demonstrated their exceptional ability to adapt to working both remotely and from home. Similarly, our students demonstrated that they were capable of working autonomously and adapted to the new teaching and evaluation methods, thanks to the very high-quality support they received.

During this period, we reinvented ourselves, making use of this experience to move forward on various subjects and, above all, to look ahead to our long-term future.

We also prepared the HCERES and Cti evaluation reports, which are essential not only for the accreditation of our diplomas and for ensuring dialogue with our supervisory authorities, but also for sharing our strategic orientations and negotiating the objectives and performance measures of our next 2022-2026 five-year contract.

This auto-evaluation is built around five key elements (positioning, strategy, organisation, governance and management) and will be supplemented by a strategic project which was collectively elaborated around issues related to developments in energy, ecology and digital technology.

While browsing through the pages of this retrospective, you will discover, or perhaps rediscover, the events and actions of the 2019-2020 academic year – a year not quite like the others.

Enjoy your read!

Prof. M'Hamed Drissi
Directeur de l'INSA Rennes



THE INSTITUTE

The HCÉRES/Cti process is essential for the institute

Like all the other higher education and research institutions in Rennes, INSA Rennes is assessed by both the Cti [Commission des Titres de l'Ingénieur – the body in charge of carrying out evaluation procedures leading to the accreditation of French institutions to award engineering degrees] and the HCÉRES [le Haut Conseil de l'Évaluation de la Recherche et de l'Enseignement Supérieur – the French public service agency responsible for the periodic evaluation of all state-contracted higher education and research institutions in France]. These evaluation reports are essential for the accreditation of the diplomas awarded by INSA Rennes and for ensuring dialogue with the institute's supervisory authorities, allowing it to share strategic orientations and negotiate the objectives and performance measures of the next 2022-2026 5-year contract. First of all, the institute carried out a self-assessment by analysing five key elements: positioning, strategy, organisation, governance and management. All heads of departments, working in concert with the steering committees, were mobilised to compile the self-assessment report. In addition, 250 INSA staff members replied to a questionnaire on this issue, thereby completing the report. Open forums in Moodle also allowed students and members of staff to participate in the institute's development strategy for the coming years by contributing to several avenues of thought.



The INSA Group welcomes a new INSA: INSA Hauts-de-France

On 10 September 2019, a decree announcing the creation of a seventh INSA on the national territory – in Valenciennes – was published in the Official Journal. The INSA Hauts-de-France institute is a component of the Polytechnic University of Hauts-de-France, a new experimental institute. It was born of the merger between the Institut des Sciences et Techniques de Valenciennes – ISTV (Institute of Science and Technology), the École Nationale Supérieure d'Ingénieurs en Informatique, Automatique, Mécanique, Énergétique et électronique – ENSIAME [graduate school for Computer, Mechanical, Control Systems, Energy and Electronic Engineering], a

partner school of the INSA Group, and the Faculté des Sciences et Métiers du Sport - FSMS [Faculty of Sport Sciences and Careers]. This new INSA is also the result of a site policy aimed at bringing together the advantages of an engineering school upholding the INSA model, and the multidisciplinary strength of a university. By creating this new INSA, the INSA Group has consolidated its presence in the various regions of France, thus strategically strengthening its geographical position in the north of France and providing its network of schools and partners with complementary fields of discipline.



Jacky EVEN among the "Highly Cited Researchers 2019"

Every year, the Web-of-Science [© Clarivate Analytics] distinguishes the most influential researchers in the world, in particular those who have been most frequently cited by their peers in the course of the last decade. In 2019, Jacky EVEN, a professor at INSA Rennes, features among those researchers identified as having an exceptional influence.

SOME FIGURES

The institute's overall budget
for 2019
41 637 624€

545
members of staff

228

teaching
& research staff

317

technical
& administrative
staff

Lecture theatre D has been given a makeover

The renovation of INSA Rennes' largest lecture theatre [420 seats] was completed in the summer of 2020. Supported by a budget of EUR 3 280 000, financed through the Contract de Plan État-Région scheme, its interior design provides both students and the teaching staff with workspaces which are pleasant, comfortable and equipped with suitable technical resources, especially with respect to audiovisual material. Furthermore, this renovation work will help to save energy by reducing heating and electricity consumption. Now that it is adapted to new educational needs and new technologies, this central teaching location can also act as a reception area for the many events organised throughout the year.

8 projects financed by the 1st participatory budget of INSA Rennes

At the end of September 2019, INSA Rennes launched its 1st participatory budget under the heading of sustainable development. The 35 projects which were submitted by the institute's staff and students can be divided into three categories: *"Sustainable towns and communities"*, *"Reducing inequalities"* and *"Gender equality"*.

15 of the proposed projects (including two projects merged into one) were put to the vote to decide between them. After 3 weeks of voting and more than 1 600 paper and digital votes cast, 8 projects were selected: the successful proposals were very diverse in nature, ranging from installing sanitary protection dispensers and planting an edible forest,



to creating lockers for cycling accessories. Supported by a budget of just over EUR 20 000, the 8 winning projects kicked off in the spring of 2020.



Portrait of Stéphanie Lasquelléc, the new Director of the Services Department of INSA Rennes

« Stéphanie Lasquelléc was appointed Director of the Services Department of INSA Rennes on 1 June 2020, succeeding Christèle Hoscar, who had held the position since 2014. After graduating from INSA Rennes with a degree in Civil and Urban Engineering, Stéphanie Lasquelléc began her career in 1998 in the town of Nanterre. Subsequently, in 2001, she joined the central administration of the Ministry of the Interior as operations manager. In 2003, she became a member of the ministry's General Secretariat, working in Bordeaux until 2007, then in Rennes until 2010. Later that year, she became Director of Building Services of the Department of Ille-et-Vilaine, a position she held until December 2015. In 2016, Stéphanie Lasquelléc joined Agrocampus Ouest as Director of Financial Affairs and, parallel to that, obtained a Masters Degree in Law, Economy and Management at the University of Rennes 1. In 2019, she began a one-year university degree course in Administration and HR Management at the IGR-IAE Rennes, and became Acting Secretary General of Agrocampus Ouest. »

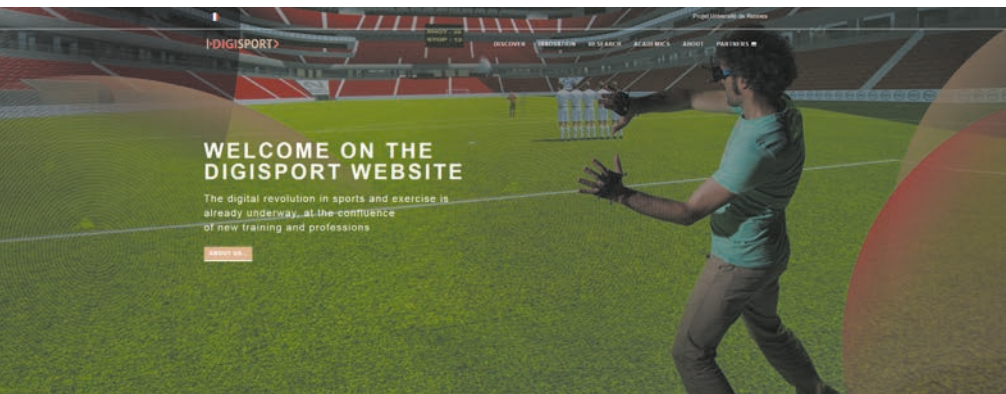
SITE & GROUP POLICY

Launch of the Rennes innovation campus

On 20 January 2020, the 7 institutions involved in the University of Rennes project and SATT Ouest Valorisation launched the Rennes innovation campus. In keeping with the DNA of the Rennes area, the innovation campus embodies the values of cross-fertilisation and transversality so beneficial for Rennes' five fields of strategic innovation which are related to the following issues of major social change:

- > energy, chemistry, and innovative materials and structures;
- > environmental intelligence and Agri/Agro;
- > digital technology;
- > health and well-being;
- > territories and public spaces.

M'Hamed Drissi, Director of INSA Rennes and the president of the Rennes innovation campus, believes that this space will help boost synergies between all stakeholders in the region's innovation ecosystem.



«École Universitaire de Recherche – EUR»: Rennes projects among the 24 laureates

The Rennes application was one of the laureates in the second round of the “Écoles Universitaires de Recherche” [EUR] call for project proposals of the Programme d'Investissements d'Avenir 3 – PIA 3 [Investing for the Future 3 Programme]. The EUR projects selected from the Rennes site are:

- > **CyberSchool**, Rennes EUR in Cyber-security, submitted by the University of Rennes 1;
- > **DIGISPORT** - Digital Sport

Sciences, EUR in the field of sport sciences, submitted by the University of Rennes 2;

- > **GS-CAPS**, Creative approaches to public spaces, EUR in the field of creation and public spaces, submitted by the University of Rennes 2.

The goal of the EURs is to offer university sites the possibility of strengthening the attractiveness and international impact of their

research and training courses in one or more scientific fields by bringing together universities, engineering schools and research bodies in a united effort to achieve excellence. The second round of calls for project proposals, with a budget of EUR 109 million, aims to create strong ties between training courses and research and to enhance the thematic strengths of institutions and sites throughout the territory.

Staff mobility grant: first edition

As part of the University of Rennes project, the 7 member institutes launched a trial staff mobility grant scheme open to all category A administrative and technical staff with civil servant status or permanent contracts, covering all sectors and lines of work. Around 650 employees were eligible for the scheme:

- > 91 signed up for the scheme;
- > 24 members of staff confirmed their participation and 48 interviews were conducted on 31 January 2020.

Following the interview process, the rankings proposed by each jury were jointly compiled by the 7 institutes and cross-checked against the candidates' preferences; thereafter, the Directors of the Services Departments validated the allocation of 8 mobility grants. Even though this number is rather limited for the first edition, this operation was very much appreciated, and contributed to strengthening links between the institutes. The scheme will be extended to category B and category C employees for the 2020/2021 academic year.



The INSA Group: a new structure to meet new challenges

The driving forces behind future changes push the INSA Group to tackle the issues of climate change, energy transition, the development of digital technology, and social transformation, notably by building on its excellence in research and innovation, its close ties to industry, its international dimension, and the ability of INSA and INSA Partners to develop innovative teaching methods. To address these challenges, the INSA Group is introducing a new flexible, transversal organisational structure which will benefit its campuses. In the new set-up, each INSA director is the vice-president

of the Group, with each one being in charge of a key development issue. The new structure and tools reflect the will to build, at Group level, a learning community that is rich in its diversity, creative, and the creator of values for a more evenly shared, sustainable world. This community will be sustained by the work of commissions made up of various stakeholders from the INSA institutes and INSA Partners. To support this new policy, the INSA institutes are developing local bodies linked to the INSA Group: sheltered Foundations, Gaston Berger Centres and OpenINSA offices.

THE INSA GROUP IS OFFICIAL MEMBER OF THE EUROPEAN CONSORTIUM OF INNOVATIVE UNIVERSITIES (ECIU)

As of the summer of 2020, the INSA Group, and therefore each INSA, is officially recognised as a full member of the European University, ECIU University. The ECIU alliance, founded in 1997, brings together 13 higher education institutions in the European Union. The ECIU institutions are united by a common profile – they all have strengths in engineering and social sciences. In that respect, they put innovation and entrepreneurship at the heart of their missions and have very close ties to industry and to their regions. ECIU is involved in the ECIU University project, an Alliance denoted by the label “European University” which is funded by the European Union. ECIU University develops an approach based on addressing challenges, knowledge and skills, and lifelong learning, as and when required. It innovates by adding a “problem-solving” dimension to research, innovation and education, while providing practical responses to the needs of our societies. In the INSA Group's case, the ECIU University project provides a major impetus for the transformations currently taking place within the Group, in line with the ambitions set out in its strategic guidelines.



TRAINING & INNOVATIVE PEDAGOGY

The 1st Arts-and-Studies seminar of the INSA Group at INSA Rennes

On 23 and 24 January 2020, INSA Rennes had the pleasure of hosting the first Arts-and-Studies seminar of the INSA Group. The seminar was attended by 17 participants from the INSA institutes in Centre Val de Loire, Lyon, Hauts-de-France and Rouen from a variety of disciplines, including music, dance, visual arts, drama, and lighting and sound technology. The programme included exchanging good practices, organising an inter-NSA event, and cultural activities. It was an opportunity to highlight the INSA Group's Arts-and-Studies



programmes and to bring together individuals involved in those areas of study.

INSA Rennes secures its diplomas

INSA Rennes, in collaboration with OLNICA – a company specialised in security systems, the fight against fraud and the detection of counterfeits – put in place a dual security system for the diplomas presented to its 2019 graduates. In association with OLNICA, the institute introduced a robust security package of physical and digital watermarking to protect its diplomas, thus becoming the first institution in France to achieve such a high level of security. In addition to physically securing the paper version of the diploma through a unique, invisible watermark by using molecular taggants, OLNICA and INSA Rennes also employed the use of a blockchain to digitally secure the digital version of the diploma, which was awarded along with the material version this year.

The INSA Group is reinventing its training programme to keep in step with social change

The INSA Group aspires to integrate environmental considerations into all of its training courses in order to prepare trainees to play an active role in environmental transitions. The Group also wants to promote the cross-fertilisation of its courses in order to produce engineers who are aware of the environmental footprint of their operations. To that end, the ClimaSup project aims to bring about a change in educational models so that, from the start of

the 2021 academic year, climate and environmental issues are clearly factored into student training. As part of this project, each INSA and INSA Partner has started mapping out what is being done in each institute. An overall reflection on how to put environmental considerations at the heart of research strategies and projects is also currently underway with the laboratories.

key figures

25%
grant recipients

29%
female students

46
students
with disabilities

81
work-study
students

2 141
students

of whom

1 829
engineering students

73
Master's students
in Research

14
Master's students
in Scienc

14
Advanced Master's
students

164 students have embarked on thematic studies

32 visual arts students
31 music students

7 drama students
1 lighting students

93 top-level
sports students



CURSUS IDE@L : 5 INSA PROJETS SELECTED

Following a first Call for Expressions of Interest (CEI) for Coursus IDE@L in 2019, a new CEI was launched at the start of 2020. Five projects were submitted by INSA Rennes. The subjects are mostly structured around the themes of "sustainable development" and "social and environmental responsibility". The projects were selected and will be allocated a certain number of hours for their completion, the objective being to implement them by the beginning of the 2021 academic year at the very latest. In the context of the COVID-19 sanitary crisis, the executive office offered to support the educational initiatives undertaken to ensure the continuity of the training courses and to prepare a more "hybrid" start to the academic year. The aim was to redeploy the funds released following a shift in budget allocation in order to give the institute the prospect of transforming educational developments, consistent with Coursus IDE@L.

INSA RENNES FACED WITH COVID-19

All through lockdown, the staff and students of INSA Rennes committed themselves, both individually and as part of a group, to ensuring the continuity of all institute activities. Their dedication echoes the institute's values in terms of solidarity, commitment, openness, benevolence and innovation.

Maintaining courses

The COVID-19 sanitary crisis obliged the institute to modify the way it functions in order to ensure that courses could continue remotely. As of 16 March 2020, the format of educational activities had to be rethought, with the adoption of digital tools such as Moodle, Zoom, Gotomeeting, etc. to ensure remote learning until the end of term. The commitment shown by all the teaching, administrative and technical staff made it possible to maintain this continuity.

More generally, at the INSA Group and Rennes site level, good practices were shared and ideas were exchanged on how to organise the start of the 2020 academic year. The institutes reflected on how they could adapt their teaching methods in view of this period of crisis.



Taking delivery of 200 cloth masks made in Vietnam, supplied by the CFOS – Les amoureux de La France group, which is made up mainly of the parents of the Vietnamese students we welcomed as part of our engineering specialties courses and our international section.

Maintaining research activities

Research at INSA Rennes is multifaceted and multidisciplinary; certain activities can be carried out remotely, whereas others cannot. The institute worked hard to enable these activities to continue whenever possible, and on-site when necessary (deliveries, maintenance, measurement campaigns), in compliance with a suitably adapted health protocol.

Postgraduate students and interns were given particular attention.

Staff required to telework

From 16 March 2020 onwards, teleworking became the new norm for the departments who were able to adapt their activities to working remotely. Staff whose activities were included in the continuity plan were suitably equipped straight away for the purpose. A hundred or so administrative staff, as well as all the lecturers and lecturer/researchers, were able to telework as soon as the lockdown measures came into effect. Exceptional access to the site was quickly granted in order to recover IT material. All INSA Rennes activities were maintained. In addition, videoconferencing and the acquisition of equipment and licences made it possible to hold executive and working meetings as scheduled. Tools and tips on how to telework effectively were given to members of staff, who were also able to express their feelings via a survey on working conditions during the lockdown period. The activity resumption plan led to the setting-up of hybrid organisational solutions which allowed each member of staff to organise themselves according to their personal constraints and to the feasibility of returning to work on-site.

Solidarity and Support Committee

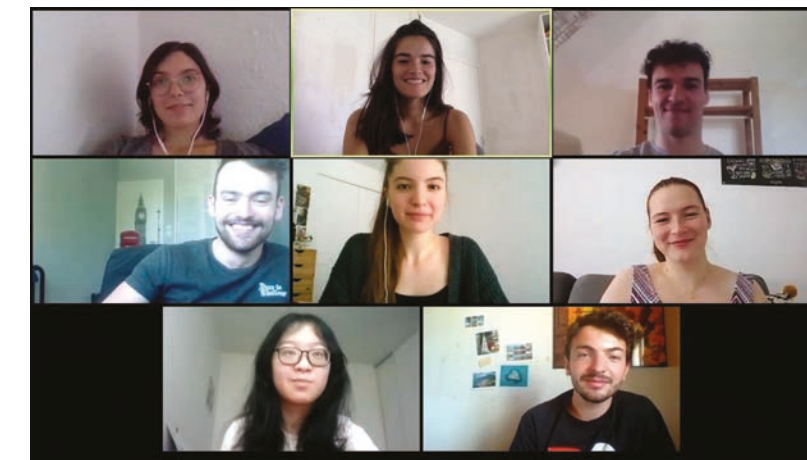
INSA Rennes and the INSA Foundation have taken action to support students who find themselves in financial and/or digital difficulty, so that every student can pursue his/her studies under suitable conditions. A new scheme coordinated by the Solidarity and Support Committee [contact: solidarite@insa-rennes.fr] responds in a simplified manner to requests by students who find themselves

in difficult circumstances. According to the committee's status report of 9 June 2020, 81 students received 147 exceptional financial donations from solidarity funds financed through the "Student and Campus Life Contribution" fee and the INSA Foundation (57% and 43% of the total sum, respectively).

"Solidarity in education" scheme

During this unprecedented period in which all pupils and students were placed under lockdown, INSA Rennes set up a "solidarity in education" scheme which was 100% digital, run by university students for students in secondary education, and endorsed by the education authority. Using digital communications, each student lent support to a high school and a secondary school pupil by developing three lines of approach: *learning support, guidance and opening up to the world*. The intergenerational, socio-educational scheme kicked off on 14 May 2020 and took the form of an 8-week training course under the supervision of two INSA tutors, with the students involved committing themselves to encouraging younger pupils to study.

Contact : Promoting Mixity / Equal opportunities
> diversite@insa-rennes.fr



1 university student + 1 high school student + 1 secondary school pupil
= a solidarity equation!

Managing mobility during the COVID-19 crisis

The international COVID-19 sanitary crisis completely disrupted the mobility projects of the 160 students who had gone abroad in the second semester to study in 29 different countries. With each new ministerial directive, the Europe and International Directorate and the International Relations Office swung into action to give as much support as they could to students who had to be urgently repatriated, and to ensure the safety of each person in this unprecedented situation. The teaching staff closely monitored each individual situation to check that students were able to continue their courses and sit exams remotely or, when it was still possible, reintegrate into the semester in progress at INSA Rennes in order to guarantee the validation of their credits.

GAËL GENDRON TALKS ABOUT BEING LOCKED DOWN IN NEW ZEALAND

Gaël Gendron, in his fifth year of studies in the Computer Science department, is studying for a Master of Research degree. He was in New Zealand when the pandemic broke out; he had chosen to do his internship at the University of Auckland's School of Computer Science: "On the whole, everything went well. We had around a thousand COVID-19 cases in the whole country, so I didn't feel particularly at risk during lockdown. We were locked down for a month, from the end of March until the end of April. I kept in contact with my family and friends. INSA contacted me several times to make sure that I was alright and to see whether I wanted to return to France or stay in New Zealand. I chose to stay put because the risk of contracting the virus was minimal and I wanted to continue my internship. Of course, I did think about returning to France, but I was almost certain that if I left, I would regret it later. It's not every day that you have the chance to study abroad for 5 months. I had confidence in the way my host country was handling the epidemic, so I took the risk. And sure enough, lockdown didn't last long, so I didn't regret my decision."



PROMOTING RESEARCH

Virtual representation of a cat mummy in the Musée des Beaux-Arts in Rennes

Operation "Chat Alors" made it possible to study an Egyptian cat mummy kept in the Musée des Beaux-Arts de Rennes [Museum of Fine Arts in Rennes]. The research was carried out jointly by the Institut de Recherche en Informatique et Systèmes Aléatoires – IRISA [Research Institute of Computer Science and Random Systems], of which INSA Rennes is the co-tutor, and the Institut national de recherches archéologiques préventives – Inrap [National Institute of Preventive Archaeological Research], in collaboration with the Musée des Beaux-Arts in Rennes and the companies ImagET, BCRX [Mordelles] and CAD'Indus [Mulhouse]. The work involved creating a digital model of the mummy, and then developing various virtual and augmented reality tools to visualise and manipulate it. The end result is an exceptional life-size transparent 3D-printed reconstruction of the mummy, revealing some unexpected contents – to be discovered at the Musée des Beaux-Arts in Rennes!



INSA Rennes PhD student makes a big impression in the MT 180' competition

After winning the Public Prize during the Rennes edition of the 2020 "Ma Thèse en 180 secondes" [My Thesis in 180 seconds] competition, Simon Guihéneuf, a PhD student at the INSA Rennes Civil and Mechanical Engineering Laboratory (LGCGM), was awarded the Jury Prize at the 2020 Brittany/Pays de la Loire regional final on 12 March. Addressing a large audience from the stage of the Petit Théâtre du Quartz in Brest, Simon Guihéneuf brilliantly presented his research topic "The elaboration and consolidation of compressed earth blocks for use as a building material" in 180 seconds, thereby qualifying for the national final of the competition. Unfortunately, the national and international finals of the competition had to be cancelled due to the COVID-19 pandemic.

The LEGENDRE Group and INSA Rennes launch the "REEXPERIENCE" chair

After 8 years of collaboration, the Legendre Group, through its INGENOVA innovation unit, and INSA Rennes decided to create an industrial chair called **REEXPERIENCE**. The main objective of this chair is to get new industrial partners involved in working collaboratively to deliver high-potential projects in the building sector. The scientific goal behind its creation is to extend the scope of the study of mixed concrete-steel structures to include the investigation of all types of buildings and materials by adopting a pluridisciplinary approach [structures-mate-

rials-thermodynamics], one that is open to the growing use of digital technology in this sector. REEXPERIENCE will address both new builds and the problems associated with renovations. This industrial chair is therefore intended to serve as a platform for the exchange of ideas among companies, students and researchers, with the aim of developing structures which are better thought out, more effective and cheaper to build.

REEXPERIENCE
Construction raisonnée, efficiente, économe

key figures

174
lecturer/researchers

170
PhD students

40
theses defended

6
laboratories

3
graduate schools

4
patents

17
softwares

5
licences

261
new publications
in 2019

10,73
total number of citations
per INSA Rennes publication
- average figure calculated over 5 years -
(source WOS) i.e. x2 in 5 years

RESEARCH CONTRACTS

63
new contracts in 2019
> a budget of 3 509 639 K€



THIERRY GLORANT, LAUREATE OF THE GEORGES CHAUDRON MEDAL

Thierry Gloriant, Director of the ISCR Chemistry-Metallurgy team, was given the Georges Chaudron medal during the Annual Congress of the French Society for Metallurgy and Materials (SF2M). This medal is awarded by the SF2M to a personality who has made a significant contribution in the fields in which Georges Chaudron distinguished himself, notably the development of materials and the study of the properties deriving therefrom. The research led by Thierry Gloriant is related to structural metallurgy, with a focus on different classes of alloys, especially those developed in far-from-equilibrium conditions. One of the flagship themes of his research today concerns the development and characterisation of new functional titanium-based alloys for health-related applications.

EUROPE & INTERNATIONAL

LOOKING BACK ON ERASMUS DAYS AND INTERNATIONAL WEEK

The 2019 edition of the Erasmus Days and international week was organised in collaboration with the 7 higher education institutions in Rennes participating in the University of Rennes project. A joint exhibition was set up in each institution to showcase the impact of the Erasmus+ Programme on these 7 Rennes institutions. The thematic presentations given in lecture theatres coupled with the mobility forum allowed students to fine-tune their mobility projects by going to meet partners, international students and local students who had benefitted from a mobility programme. The INSA library and restaurant were also involved in this initiative; the former proposed a selection of works with an international dimension, and the latter served exotic meals to students and staff.



Beka Chachua



Students tell their stories

Beka Chachua and Tamar Sharabidze are Georgian students from the Ivane Javakishvili Tbilisi State University (TSU). They spent 6 months at INSA between January and June 2020 as part of the Erasmus+ International Credit Mobility Programme.

They share their experiences with us:

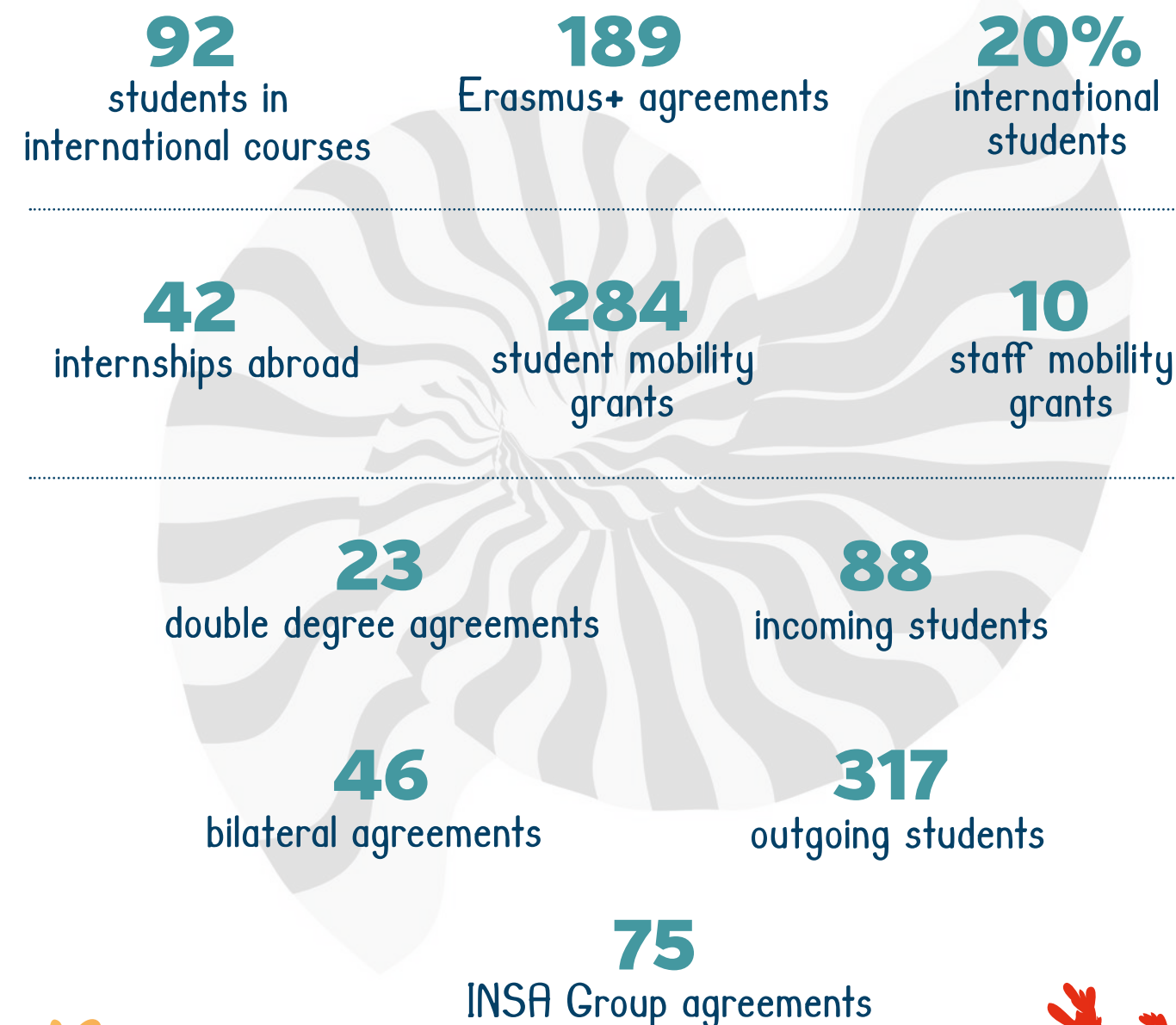
"I have no regrets. It was the best experience I've ever had. The course level is much higher than I had imagined. All the professors are highly experienced and kind," Beka explained. He added: "The students here are very kind-hearted and friendly. They helped me settle in when I first arrived. My only piece of advice to anyone who wants to come to Rennes but who is a little hesitant is: 'Just do it!'"

In Tamar's view, "the quality of instruction at INSA Rennes is high. The professors were very enthusiastic and always tried to use simple terms to explain subjects that were difficult to understand. This type of support helped to breakdown the language barriers. I have many fond memories of students who were very friendly towards me right from the get-go. Just like the administrative services, the students were always ready to explain everything to me and to lend a helping hand. We talked about the history and culture of our respective countries. I should also mention the kindness of the administrative services during lockdown. They contacted us frequently to offer help, should we need it."



Tamar Sharabidze

key figures



THE ERASMUS+ LABEL

INSA Rennes has been awarded the "Good Practices" label by the National ERASMUS+ Agency, based on criteria defined by the European Commission relating to the pertinence, general quality of execution, impact and dissemination of the results of the international mobility project for students and staff in 2018-2019. In 2019, INSA Rennes secured a new Erasmus grant agreement for student mobility – study and internship – and staff mobility. Three other Erasmus programmes are also underway with certain specified partner institutions in Cambodia, Lebanon, Senegal, Morocco, Columbia, Argentina and Georgia.



BUSINESSES & ENTREPRENEURSHIP

The INSA Group Foundation: using science to meet the challenges facing society

With a view to helping students facing hardship as a result of the sanitary crisis, the INSA Foundation put in place a support scheme and set up a special solidarity fund which INSA Rennes could benefit from. Since its creation in 2018, the purpose of the INSA Foundation has been to develop and diffuse the humanistic model of engineering that Gaston Berger conceived in 1957. The programmes run by the INSA Foundation place science in the service of social issues and causes ("Alliances" with the humanitarian organisations Handicap International and WeTechCare); favour social diversity thanks to fellowships; and reinvent the relationship between engineering schools, students and businesses through exchanges, co-construction and debates.

11 institutions officially launch "Station Rennes"

On 15 November 2019, eleven higher education institutions signed the Charter for the initial "SAS de Création" ["Ideas Lab"] phase of the Rennes inter-institutional student incubator project "Station B", now referred to as "Station Rennes".

The purpose of the project, initiated by INSA Rennes, the Rennes School of Business and CentraleSupélec, is to set up a multiskilled student incubator to provide comprehensive support for local students who want to start their own business, from their first year of studies right through

to the creation of their company. The Station Rennes incubation programme is designed as a two-part rocket:

> The first part, *SAS de Création*, takes the form of a support structure within each institution which is dedicated to guiding students at the conception phase of their project;

> In the second "shared Incubator" part, known as *Station Rennes*, a selection of emerging projects are brought together in one place to boost the cross-fertilisation of the skills and experience of the young entrepreneurs.

The opening of SAS de Création at INSA Rennes

In March 2020, SAS de Création (a business creation support structure) was opened at INSA Rennes with the goal of helping student-entrepreneurs set up their own businesses by improving, speeding up and securing the process of business creation. The purpose of this SAS is to centralise all student entrepreneurial initiatives at INSA Rennes in order to stimulate the crossbreeding of knowledge and know-how, particularly among INSA engineering specialities. Today, the INSA Rennes SAS de Création is host to several types of innovative business creation projects. Two of these projects were submitted by INSA students during their studies:

> *In'Wine*, submitted by Nicolas Cormerais (Mechanical and Control Systems Engineering student)

> *Flameengo*, submitted by Jean-Baptiste Karkouz (Electronics and Industrial Computing student)

The company *LiveStep* is also incubating at the INSA Rennes SAS de Création. This young start-up was co-founded by Romain Berrada after graduating from INSA (with an engineering degree from INSA Rennes II and a Master of Science Innovation and Entrepreneurial Degree from INSA/Rennes School of Business), and Franck Le Dortz (University of Rennes 2).



key figures

81

companies are members of the partnership club in 2019

513 k€

amount collected via the Apprenticeship Levy (2019)

34,7 k€

average annual salary (class of 2019)

92,4%

employment rate (class of 2019, 6 months after graduating)

84,9%

students hired on permanent contracts (class of 2019, 6 months after graduating)

2

internship speed networking events

6

careers speed networking events

91

companies participated in events organised by the Business & Partnership Directorate



A NEW ORGANISATIONAL STRUCTURE FOR THE CORPORATE RELATIONS AND PARTNERSHIPS DIRECTORATE - DREP

The ambition of INSA Rennes in 2020 is to further develop its policy of openness towards the socio-economic world through partnerships, entrepreneurship, and its foundations. The actions related to these three strategic directions are driven and coordinated by task officers:

> Maud Guézo, as the Foundations Officer, is involved in elaborating a strategy for the development of the INSA Foundation and aims to establish the Foundation under the aegis of the Group INSA Foundation and the INSA Rennes Gaston Berger Centre.

> Eric Anquetil, as the Entrepreneurship Officer, is responsible for developing a culture of innovation and entrepreneurship across all student training courses.

> Ivan Leplumey, as the Corporate Relations Officer, works directly with the Corporate Relations and Partnerships Directorate team to develop sustainable partnerships with socio-economic stakeholders. The aim is to promote the professional integration of engineers and to finance educational, innovative and research-related actions and projects.



CAMPUS LIFE

The student associations signed a Sustainable Development charter with the management regarding the events they organise.

At the end of 2019, AEIR (INSA Rennes Student Union) and five of its largest events (the festivals of Rock'n Solex, Un Des Sens, l'Œil Glauque, INSALAN and le Gala), as well as the "Grand Ouest" Forum and the Environment Club, all signed a charter for student events committed to sustainable and inclusive development. Indeed, aware of the issues at stake and, for several years now, committed to pursuing a policy of reducing its environmental impact, AEIR decided to define new production and organisational methods which respect its ecological, economic and social environment. This charter will enable the implementation of good practices that have clearly defined time frames and are quantifiable for each event.



2020 Edition of the Digital Freedoms Festival

The whole purpose of the Digital Freedoms Festival [Festival des Libertés Numériques] is to provide each person with the means to enquire, share information and educate themselves about the problems linked to privacy issues and the preservation of our digital freedoms. The 3rd edition of this unique festival, which was coordinated by the INSA Rennes library, took place in 2020. Chloé Lailic, who is in charge of the INSA Rennes library as well as being the Data Protection Officer, was interviewed on the subject:

Why set up a project like this?

Libraries are deeply committed to preserving freedom of information. Yet today, the threats to our freedoms, in particular the freedom to inform ourselves, are very real. Indeed, mass surveillance, as revealed by Edward Snowden in 2013, has a direct impact on our collective freedom to be informed. That is why it is so imperative to learn how to use tools that can protect one's private life from commercial and state surveillance, thus collectively protecting fundamental freedoms. For 5 years now, the INSA library [Bibliinsa] has taken an interest in these issues and has developed relations with many stakeholders engaged in this topic. That is how the idea to create a 2-week event dedicated to the issues of digital freedoms was born.



What are Bibliinsa's future projects in this domain?

The Bibliinsa team has chosen to stop coordinating this particular large project, but will continue to propose related actions. The issues related to compliance with the General Data Protection Regulation, cyber violence against women, and the fight against "fake news" all warrant dedicated training and discussion workshops within the INSA community.

key figures

53 ans
age of the INSA Rennes
Students' Association
(AEIR)

6
major cultural, artistic
and sporting events

173
bicycle parking spaces
on campus

57
waste-sorting bins spread
across the campus

26
kilos of spring/summer honey
produced by INSA hives

32
sporting activities proposed by the INSA
Rennes Sports Association (AS)



RAISING AWARENESS AND CHANGES IN THE WAY THE FOY' FUNCTIONS

The student bar run by the INSA Rennes Student Union [AEIR] has been undergoing a full-scale revolution over the past few years. It is true to say that the Foy' has seen a number of changes brought about by student teams who, year after year, become actively involved in providing a warm, inviting place where everyone is welcome. Whether it is renovating the bar's interior design to make its shared space more convivial, or raising awareness about alcohol consumption, respecting others or sexual harassment, the Foy' is constantly innovating and taking shape. The latest news: the AEIR Clubs are taking over the place two evenings a week to propose an evening of entertainment open to all INSA members. Rock, board games or improv – everything's possible!

WE WOULD LIKE TO THANK THE COMPANIES WHO PAID THEIR APPRENTICESHIP LEVY IN 2019

Our GOLD partners



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