



Dear Partner,

Autumn has been hot both outside and inside Solaris Optics! We are happy to share an update on recent developments in our company!

We cover the following topics:

- Seasons Greetings, Year Summary and Plans from our CEO, Michal Muniak
- Covid19 situation in Poland – update as of December 18, 2021
- Developments in Solaris Optics (investments, R&D)
- Employees & key employee presentation
- New publications on our website
- Pre-publication premiere - interview with Mr Zdzislaw Choromanski, Head of Thin-Films Department

Have a good read!

SEASONS GREETINGS, YEAR SUMMARY & PLANS

- Letter from Michal Muniak, CEO

Dear Partner,

2021 couldn't be more special to us. We have been founded in 1991, so along this year we celebrated the 30-year anniversary. You could have found it in our social media campaigns, newsletters, graphics and events.

But all in all, it was also another business year. I find this personally a big company success that we not only survived another pandemic year, but we also increased employment and improved our financial result, as compared to 2020. This has been possible mostly due to increased orders of our long-term clients and thanks to our employees, who worked often with high intensity to meet the market demand.

2021 was also a year of investments and R&D projects. We concluded purchases of optical grinding machines, ultrasonic cleaners and, most recently, a raster mode expansion to our MRF machine. We also significantly increased our production capacity. Some of those investments came as parts of R&D projects, such as reduction of subsurface damages or the recently finished OPTISSE project (as described below).

For 2022 we plan to continue the development path. In this newsletter we announce a new investment in aspheric lens manufacturing technology. In coming months we shall accept a new company strategy, which will be followed with structural changes and further improvement of our customer service performance. We will also increase the efficiency of our internal processes by implementing an ERP system. We look towards the year 2022 with optimism and hope.

Optimism and hope are also connected in a special way with the upcoming Christmas holidays. Please let me wish happy Christmas time to you, your employees and families. Let the New Year 2022 be peaceful, healthy and prosperous!

Yours,

Michal Muniak, CEO



COVID 19 IN POLAND

After calm summer the pandemic hit Poland again in autumn and reached its peak in the first week of December (over 29 000 new cases on December 1). With a vaccination level of almost 55% of people (fully vaccinated) Poland is a laggard among European countries.

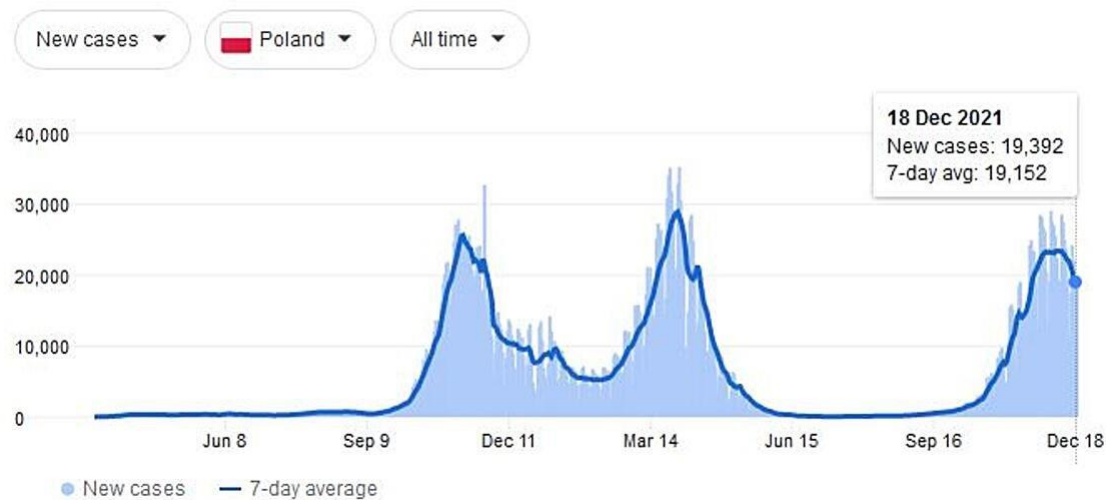
Covid-19 related movement restrictions include: minimum 1.5m distance between pedestrians and an obligation to cover mouth and nose with a mask in closed public spaces (such as shops, government offices, buses, etc.).

Travelling to Poland from EU Member States, Schengen Area and Turkey requires a 10 day quarantine upon entry, unless fully vaccinated or after infection (no later than 6 months) or present a negative test result (not earlier than 48 hours before entry).

Solaris Optics follows all the government imposed COVID-19 rules and so far our operations have been uninterrupted.

Complete and up to date information about current limitations in Poland (English):

<https://www.gov.pl/web/coronavirus/temporary-limitations>



DEVELOPMENTS IN SOLARIS OPTICS

Investment in MRF Raster Mode

As a next step in development of our corrective polishing capabilities, we have recently purchased and installed a Raster Mode to our [MRF machine](#). This new add-on allows us to eliminate the undesirable central artifact effect, which oftentimes occurs in rotational polishing. More about the investments and new capabilities, [here](#).

Aspherical Lens Manufacturing - Investments Scheduled to 2022

Responding to the market demand Solaris Optics scheduled an investment that will expand our capabilities to glass aspheric lens manufacturing. So far we are able to produce so called mild aspheric elements on MRF.

The investment is planned for Q4 2022 and will cover a full production line with CNC machining, grinding, polishing and metrology for aspheric elements.

[At this stage we would appreciate any early interest information from potential clients.](#)

OPTISSE: Optical Payload for Small Satellites for Defence

Solaris Optics team successfully completed the OPTISSE project, under the -EU European Defence Industrial Development Programme (EDIDP) 2019. The full name of the OPTISSE project: "*Very high resolution optical payload for small satellites for defence applications*".

The aim of the project was to perform a feasibility study and a preliminary design of innovative technologies for a cost-effective high-performance Earth Observation payload for small satellites.

A consortium of six partners studied and designed an integrated system, compatible with a <100 (kg) microsatellite platform. Solaris Optics was in charge of developing and validating tailored manufacturing and test methods for high precision optical elements, as well as for fabrication of test components meeting extremely strict requirements.

EMPLOYEES & KEY EMPLOYEE

New Recruitments

We are currently looking for a **Thin Films Optics Engineer** to join our Thin Film Coatings Department, led by Mr Zdzislaw Choromaski. Please do not hesitate to share this info with potentially interested professionals! More <https://solarisoptics.eu/career>

30th Work Anniversaries!

In December, we celebrated two special work anniversaries. **Mr Piotr Klimek** from Pre-processing Department as well as **Mr Zdzislaw Choromanski** from Thin Films Department have just finished 30 years of work in the company!

KEY EMPLOYEE STAGE: Mr Zdzislaw Choromański, Head of Thin Film Department at Solaris Optics

In the Key Employee Stage, we introduce our colleagues by presenting their professional bio and asking 3 questions. This time though, with a special occasion of 30 years of work anniversary we publish a full length interview with Mr Zdzislaw Choromański. See below in our "Pre-publication Premiere" cycle.

Professional Bio

Mr Zdzislaw Choromanski, graduated from Warsaw University of Technology and started his professional career in the Institute of Plasma Physics and Laser Microfusion in Warsaw. He joined Solaris Optics in 1991 to create, develop and then manage the Thin Film Coatings Department of the company. Today Mr Choromanski is Polands' top expert in optical thin-film coatings technologies, appreciated by colleagues, clients and partners.



Mr Zdzislaw Choromański, Head of Thin Film Coatings Department, Solaris Optics

NEW PUBLICATIONS

In the last quarter, we continued the topic of Pockels cells, with an exclusive interview about Pockels cells technology with our co-founder, Mr Ryszard Wodnicki, PhD, Eng. We also reviewed optical thin film deposition technologies and provided a bit more details regarding our new investment in MRF Raster Mode. Have a good read!

- [Optical Thin Film Deposition Technologies - Overview](#) – Solaris Optics
- [KDDP Pockels Cells - Operation and Design](#) – Ryszard Wodnicki, PhD Eng, Solaris Optics
- [Raster Mode to Expand Capabilities of Magneto-Rheological Finishing](#) – Solaris Optics
- 30 Years in Optical Thin-Film Coatings - Interview with Zdzislaw Choromanski, Head of Thin Film Department, Solaris Optics (below!)

Please also remember to follow our social media sites at [LinkedIn](#) and [Facebook](#)!

Pre-publication Premiere

30 Years in Optical Thin-Film Coatings - Interview with Mr Zdzislaw Choromanski, Head of Thin Films Department at Solaris Optics



Mr. Choromanski, you joined Solaris Optics 30 years ago, shortly after the company was founded. Please accept congratulations on the 30th anniversary of work.

Thank you very much.

Could you go back and tell readers what life was like at that time?

A bit like today, but many techniques were missing, mainly communication and digital, which we now take for granted. But it was a period of rapid development of those technologies, so our task was to learn and put into use everything that was useful.

[Read full article here!](#)

Please do not hesitate to [contact us](#) if questions!



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